This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

**Usage guidelines**

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

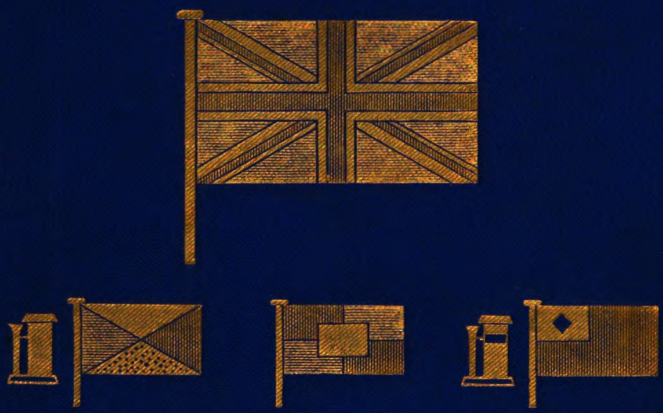
**About Google Book Search**

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

2ND EDITION GREATLY ENLARGED

H
2450
11.105

# FLAGS



## NATIONAL & MERCANTILE

## HOUSE FLAGS & FUNNELS

7/6

J. GRIFFIN & CO., PORTSMOUTH

Digitized by Google

H
2450
.105

HARVARD COLLEGE
LIBRARY

THE GIFT OF

FRANCIS PEABODY MAGOUN, JR.

CLASS OF 1916

OF CAMBRIDGE

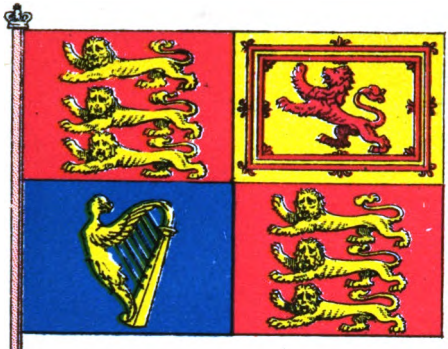
Digitized by Google

Digitized by Google

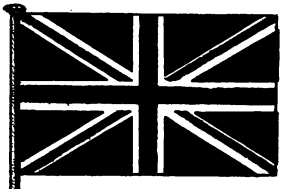
Digitized by Google

Francis P. Magoun
Babylon
Long Island

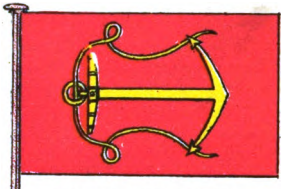
Digitized by Google



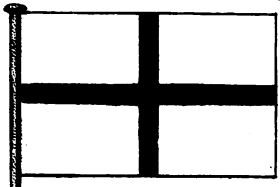
ROYAL STANDARD.



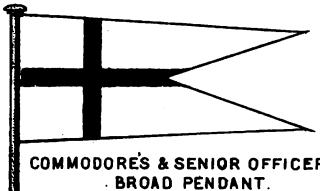
UNION JACK.



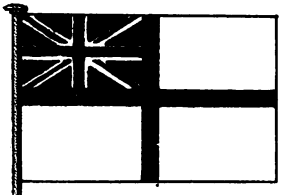
ADMIRALTY FLAG.



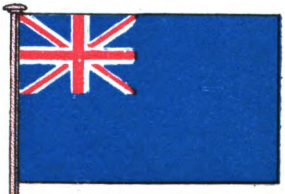
ADMIRALS FLAG.



COMMODORE'S & SENIOR OFFICER'S BROAD PENDANT.



WHITE ENSIGN.



BLUE ENSIGN.



Digitized by Google

# FLAGS

## NATIONAL AND MERCANTILE;

FOR THE USE OF

OFFICERS OF ROYAL NAVY, MERCANTILE MARINE;

AND YACHT SQUADRONS.

CONTAINING FLAGS OF

THE ROYAL NAVY; NATIONAL ENSIGNS FOR MEN-OF-WAR;
NATIONAL COLOURS FOR MERCANTILE MARINE;
INTERNATIONAL CODE; FOG SIGNALS; OPTIONAL SIGNALS;
SIGNALS OF DISTRESS;
VESSELS' LIGHTS AS SEEN BY A LOOK-OUT MAN,

AND

## 782 HOUSE FLAGS AND FUNNELS

OF THE

PRINCIPAL SHIPS OF THE

## MERCANTILE MARINE.

AND

## 120 NATIONAL FLAGS AND SIGNALS.

COMPILED BY

JAMES GRIFFIN.

SECOND EDITION—GREATLY ENLARGED,
(422 additional Flags).

1891.

PORTSMOUTH:

GRIFFIN & CO., 2, THE HARD,

(Publishers, by Appointment, to Her Majesty The Queen, and H.R.H., The Duke of Edinburgh.)

LONDON AGENTS—Simpkin, Marshall & Co.; and sold by Imray & Son, 89 & 102, Minories; Norie & Wilson, 156, Minories; H. Hughes & Son, 59, Fenchurch Street; J. D. Potter, 31, Poultry.

LIVERPOOL—Philip, Son & Nephew.
GLASGOW—Brown & Son, 35, Mitchell Street; McGregor & Co., Clyde Place.
BERLIN—W. H. Kühl.
SHANGHAI, HONG KONG, YOKOHAMA—Kelly & Walsh.
ST. PETERSBURGH—E. Ricker.
TOKIO—Maruya & Co.

Digitized by Google

H 9450.11.105
✓

May 8. 1929
LIBRARY

F

Francis Peabody Magoun, Jr.

Digitized by Google

# Notice to Shipowners.

The Publishers will be glad to insert in subsequent editions of this work, the Flags of any Owner or Company (not in the present list), if they will kindly forward a drawing and particulars of it, addressed to

GRIFFIN & Co.,
2, The Hard,
Portsmouth,

and notice of ANY ERROR in this book will be gratefully received, and shall be corrected.

Digitized by Google

Digitized by Google

# INDEX.

## A.


| | Page. | No. of Flag. |
|---|---|---|
| Aberdeen and Glasgow Steam Ship Co., Aberdeen | 8 | 13 |
| Aberdeen Steam Navigation Co., Aberdeen | 16 | 337 |
| Adam Steam Ship Co., Aberdeen ... | 10 | 93 |
| Adam & Co., Aberdeen ... ... | 10 | 93 |
| Adam, Hamilton & Co., Greenock ... | 8 | 23 |
| Adriatic Hungarian Sea Navigation Co., Fiume | 18 | 413 |
| African Steam Ship Co., London ... | 9 | 46 |
| Aitken, T., Leith ... ... | 12 | 180 |
| Aitken, Lilburn & Co., Glasgow ... | 22<br>23 | 592<br>667 |
| Alexander, R. & Co., London ... ... | 19 | 450 |
| Allan Line, Glasgow ... ... | 16 | 336 |
| Amazon Steam Navigation Co., London ... | 20 | 488 |
| American Steam Ship Co., London ... | 10 | 110 |
| Anchor Line, Glasgow ... ... | 8 | 16 |
| Anchor Line, Hull ... .. ... | 20 | 487 |
| Anderson, Anderson & Co., London ... | 25 | 758 |
| Anderson, Horan & Co., Sunderland ... | 17 | 394 |
| Angfartygs Rederi Bolaget Svithiod, Gothenburg | 9 | 44 |
| Angfartygs Bolaget Sodra Sverige, Stockholm | 12 | 166 |
| Angier, Bros., London ... ... | 15 | 312 |
| Anglo-Australasian Steam Navigation Co., London | 9 | 67 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Apcar & Co., Calcutta ... ... | 13 | 227 |
| Appleby, T., & Co., W. Hartlepool ... | 9 | 73 |
| Arens, J. F., Bremen ... .. | 25 | 745 |
| ARGENTINE REPUBLIC for Men-of-War | 3 | |
| „ „ for Mercantile Marine | 5 | |
| Asiatic Steam Navigation Co., Liverpool ... | 19 | 460 |
| Atlantic Transport Line, London ... | 21 | 523 |
| Atlas Line, Liverpool ... ... | 17 | 383 |
| Auger, H. Ainé, Havre ... ... | 22 | 612 |
| Australasian Steam Navigation Co., Sydney, N.S.W. | 11 | 151 |
| AUSTRIA for Men-of-War ... ... | 2 | |
| AUSTRO-HUNGARY for Mercantile Marine | 4 | |
| Austro Hungarian Lloyd Steam Navigation Co., Trieste ... ... . . | 21 | 529 |


## B.


| | | |
|---|---|---|
| Bacon, John, Liverpool ... ... | 18 | 421 |
| Bailey and Leetham, Hull ... ... | 9 | 51 |
| Baine and Johnston, Greenock ... ... | 25 | 742 |
| Balfour, Williamson & Co., Liverpool ... | 25 | 748 |
| Balls, W. D. C. & Sons, N. Shields ... | 15 | 306 |
| Bank Line, Glasgow ... ... | 23 | 669 |
| Barrie, C., Dundee ... ... ... | 15 | 305 |
| Barrow Steam Navigation Co., Barrow and Glasgow | 15 | 299 |
| Bates, E. & Son, Liverpool ... ... | 22 | 565 |
| Bauer, H., Rostock ... ... ... | 16 | 356 |
| Bay Line, Glasgow ... ... ... | 22 | 617 |
| Beazley, J. & Son, Liverpool ... ... | 23 | 634 |
| Bedouin Steam Navigation Co., Liverpool ... | 13 | 203 |
| Bee Hive Line, Harrington ... ... | 25 | 778 |
| Belfast Steam Ship Co., Belfast ... | 8 | 19 |
| BELGIUM for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Bell, R. & Co., Newcastle ... ... | 18 | 427 |
| Bell Bros. and MacLelland, Glasgow ... | 19 | 453 |
| Ben Line, Leith ... ... ... | 14 | 279 |
| Ben Line ... ... ... | 24 | 689 |
| Beynon, T. & Co., Ld., Newport ... | 10 | 111 |
| Black Star Line, Liverpool ... ... | 23 | 623 |
| Black Diamond Steam Ship Co., Montreal ... | 11 | 154 |
| Blackwall Line, London ... ... | 12 | 195 |
| Blaik & Co., Leith ... ... ... | 12 | 187 |
| BOLIVIA for Men-of-War ... ... | 3 | |
| Bolton and Kenneth, London ... ... | 11 | 131 |
| Booth Steam Ship Co., Liverpool ... | 13 | 218 |
| Bordes, A. D. & Fils, Bordeaux ... ... | 23 | 639 |
| Bosphorus Line, Constantinople ... | 10 | 87 |
| Boston and Philadelphia Steam Ship Co., Boston, U.S.A. ... ... ... | 8 | 21 |
| Bowring, C. T. & Co., Liverpool ... | 22 | 578 |
| Bowser, J. E., Ormston & Co., Newcastle ... | 18 | 433 |
| Boyd, J., Helensburgh ... ... | 23 | 663 |
| Boyes & Ruyter, Bremen ... ... | 23 | 648 |
| BRAZIL for Men-of-War ... ... | 3 | |
| „ for Mercantile Marine ... | 4 | |
| Briggs, H., Sons & Co., Hull ... ... | 10 | 99 |
| Bristol and London Steam Ship Co., Liverpool | 12 | 175 |
| Bristol Steam Navigation Co., Ld., Bristol ... | 13 | 221 |
| British and Foreign Steam Ship Co., Ld., Liverpool | 9 | 42 |
| British India Steam Navigation Co., London | 9 | 52 |
| British and Burmese Steam Navigation Co., Ld., Glasgow ... ... ... | 16 | 339 |
| British and Irish Steam Packet Co., Ld., Dublin | 18 | 411 |
| British and African Steam Navigation Co., Glasgow | 19 | 479 |
| British Shipowners Co., Liverpool ... | 23 | 635 |
| British and Eastern Shipping Co., Liverpool | 24 | 684 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Breda, Fred, Christiania ... ... | 22 | 587 |
| Brocklebank, T. & J. Liverpool... ... | 24 | 739 |
| Brown, Atkinson & Co., Hull ... ... | 19 | 477 |
| Browne and Watson, Glasgow ... ... | 23 | 647 |
| Bruce, D. & Co., Dundee ... ... | 23 | 630 |
| Bucknall, H. & Son, Ld., London ... | 11 | 127 |
| Bugsir Gesellschaft Union, Bremen ... | 21 | 521 |
| Bullard, King & Co., London ... ... | 22 | 605 |
| Bulloch, J. & G., London ... ... | 22 | 609 |
| Bulloch's Bay Line, London ... ... | 22 | 611 |
| Burdick and Cook, London ... ... | 16 | 358 |
| Burgess & Co., Swansea ... ... | 22 | 568 |
| Burns, G. & J., Glasgow ... ... | 21 | 527 |
| Burn Line, Greenock ... ... | 25 | 777 |
| Burrell & Sons, Glasgow ... ... | 17 | 365 |


## C.


| | | |
|---|---|---|
| Caird, C. S., Greenock ... ... | 24 | 690 |
| Cairns, R. and D., Leith ... ... | 13 | 223 |
| Caledonia Steam Ship Co., Ld., Liverpool ... | 19 | 442 |
| Campagnie Generale Transatlantique, Paris | 8 | 38 |
| Campo, Marquis de, Madrid ... ... | 8 | 9 |
| Canada Shipping Co., Montreal... ... | 17 | 370 |
| Capper, Alexander & Co., London ... | 21 | 528 |
| Cardiff Steam Ship Co., Ld., Cardiff ... | 19 | 446 |
| Carlisle & Co., London ... ... | 18 | 437 |
| Carl, L. H., Copenhagen ... ... | 10 | 102 |
| Carron Line, Carron ... ... | 10 | 103 |
| Carroll, J. J., Dublin ... ... | 18 | 414 |
| Carmichael, A. and J. & Co., Greenock ... | 23 | 661 |
| Caw, Prentice, Clapperton & Co., Glasgow ... | 9 | 74 |
| Cay, Hall & Co., Newcastle ... ... | 9 | 64 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Cayzer, Irvine & Co., Glasgow ... ... | 10 | 104 |
| Chambers, James & Co., Liverpool ... | 14 | 270 |
| Chapman and Miller, Newcastle ... | 14 | 249 |
| Charente Steam Ship Co., Ld., Liverpool ... | 9 | 50 |
| Chargeurs Reunis, Havre ... ... | 8 | 25 |
| CHILI for Men-of-War ... ... | 3 | |
| „ for Mercantile Marine ... ... | 5 | |
| CHINA for Men-of-War ... ... | 3 | |
| China Merchants Steam Navigation Co., Shanghai | 11 | 149 |
| China Navigation Co., London ... ... | 14 | 247 |
| China Shippers Mutual Steam Navigation Co., Ld., London ... ... ... | 18 | 402 |
| Chinesische Kustenfarhrt Gesellschaft, Hamburg | 9 | 56 |
| Chirket-Hairie, (Bosphorous Line) Constantinople | 10 | 87 |
| Christensen, J., Bergen ... ... | 10 | 94 |
| Christie & Co., Cardiff ... .. | 20 | 496 |
| City of Cork Steam Packet Co., Cork ... | 9 | 47 |
| City of Dublin Steam Packet Co., Dublin ... | 13 | 202 |
| City Line, Glasgow ... ... | 11 | 142 |
| Clan Line, Glasgow ... ... | 10 | 104 |
| Clan Line, Glasgow... ... ... | 23 | 633 |
| Clapham Steam Ship Co., Ld., Newcastle ... | 11 | 128 |
| Clark and Service, Glasgow ... ... | 12 | 162 |
| Clink, J. D., Greenock ... ... | 22 | 596 |
| Clutha Shipping Co., Glasgow ... ... | 25 | 752 |
| Clyde, W. P. & Co., New York ... ... | 16 | 344 |
| Clyde Shipping Co., Glasgow ... ... | 18 | 409 |
| Cockerill, Société, Antwerp ... ... | 21 | 548 |
| Cohen, A. M., Newcastle ... ... | 14 | 263 |
| Collings & Co., London ... ... | 18 | 432 |
| Colville, Lowden & Co., Glasgow ... | 18 | 404 |
| Commercial Steam Ship Co., London ... | 8 | 30 |
| Compagnie Commerciale de Transatlantique a Vapeur Francais, Havre ... ... | 15 | 319 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Compagnie. Francaise de Navigation, Marseilles | 19 | 445 |
| Compagnie Havraise Peninsulaire de Navigation a Vapeur, Havre ... ... | 18 | 417 |
| Compagnie Nationale de Navigation, Marseilles | 12 | 170 |
| Compagnie Nationale de Navigation a Vapeur Nantes ... ... ... | 12 | 172 |
| Compagnie Maritime du Pacifique, Havre ... | 14 | 262 |
| Compagnie de Navigation Mixte, Marseilles | 15 | 285 |
| Compagnie. Marseillaise De Navigation a Vapeur, Marseilles | 15 | 301 |
| Compania Filipinas ... ... ... | 10 | 90 |
| Compania Hispano-Argelina, Barcelona ... | 11 | 145 |
| Compania La Flecha, Liverpool... ... | 16 | 332 |
| Compania Sud Americana de Vapores, Valparaiso | 9 | 55 |
| Compania Trasatlantica, Cadiz ... ... | 20 | 498 |
| Conaway, R. & Co., Liverpool ... ... | 9 | 77 |
| Co-Operative Wholesale Society, Ld., Manchester | 17 | 389 |
| Cordes, D. & Co., Bremen ... ... | 24 | 714 |
| Cork Steam Ship Co., Ld., Cork ... | 9 | 45 |
| Cornfoot, J. & Co., Glasgow ... ... | 22 | 508 |
| Corry, J. P. & Co., Belfast ... ... | 22 | 583 |
| Cory, John & Sons, Cardiff ... ... | 17 | 369 |
| COSTA RICA for Mercantile Marine ... | 5 | |
| Cotesworth, Lynne & Co., Liverpool ... | 22 | 577 |
| County Steam Ship Co., Ld., Belfast ... | 10 | 88 |
| Coupland, J, Leicester ... ... | 24 | 713 |
| Courtgi, P. M. & Co., Constantinople ... | 20 | 510 |
| Coverdale, Todd & Co., Hartlepool ... | 11 | 129 |
| Craig, Scott & Co., Greenock ... ... | 22 | 601 |
| Craig, R. & J., Glasgow ... ... | 23 | 672 |
| Craig, R. & J., Glasgow ... ... | 13 | 233 |
| Crawford and Rowat, Glasgow ... ... | 24 | 710 |
| Crawford, W. & A., Greenock ... ... | 24 | 740 |
| Cromwell Steam Ship Co., Ld., New York ... | 10 | 112 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Crow, Rudolf & Co., Liverpool ... ... | 23 | 674 |
| Crown Line, Liverpool ... ... | 24 | 703 |
| Culliford and Clark, Sunderland ... | 11 | 130 |
| Cunard Line, Liverpool ... ... | 11 | 147 |
| Currie, Donald & Co., London ... ... | 17 | 387 |

## D.

| | | |
|---|---|---|
| Dale Line, Liverpool ... ... | 24 | 681 |
| Dall 'Orso, M. A. and A., Genoa ... | 24 | 724 |
| Dampskibsselskabet Danmark, Copenhagen | 10 | 89 |
| Dampfs-Rhederi Hansa, Hamburg ... | 10 | 98 |
| Dampskibsselskabet Thingvalla, Copenhagen | 18 | 436 |
| Dampskibsselskabet Ostersoen, Copenhagen | 21 | 524 |
| Damps, Gessellschaft Neptun, Bremen ... | 21 | 532 |
| Daniel, T. & Sons, Bristol ... ... | 24 | 730 |
| Dannebrog Steam Ship Co., Copenhagen ... | 17 | 384 |
| Davies, L. & Co., Liverpool ... ... | 23 | 651 |
| David and Matthews, Swansea ... | 14 | 276 |
| De Freitas, A. C. & Co., ... ... | 19 | 475 |
| Delmas Frères, La Rochelle ... ... | 17 | 363 |
| Demerara and Berbice Steam Ship Co., Ld., London | 9 | 72 |
| DENMARK for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Denniston, P. & Co., Glasgow ... ... | 22 | 590 |
| Dent & Co., Newcastle ... ... | 8 | 12 |
| Deutsch-Amerikanische Petroleum Gesellschaft Bremen ... ... ... | 21 | 547 |
| Deutsche Dampfs Gesellschaft Hansa, Bremen | 15 | 289 |
| Deutsche Dampfs. Gesellschaft Kosmos, Hamburg | 14 | 252 |
| Deutsche Dampfschiffs Rhederei, Hamburg | 9 | 78 |
| Devitt & Moore, London ... ... | 23 | 676 |
| De Wolf, J. R. & Co., Liverpool ... | 23 | 658 |
| Dickinson, W. & Co., Newcastle ... | 10 | 113 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Dickson, J. R. & Co. Glasgow ... ... | 25 | 749 |
| Direct Line, Glasgow ... ... | 9 | 74 |
| Dixon, P. H. and Harrison, Glasgow ... | 16 | 328 |
| Dixon, W. H., Liverpool ... ... | 16 | 331 |
| Dixon, W. T. & Sons, Liverpool... ... | 22 | 593 |
| Dixon, T. & Sons, Belfast ... ... | 22 | 603 |
| Dixon, Robson & Co., Newcastle ... | 10 | 108 |
| Dodd, J. & Co., Liverpool .. ... | 23 | 680 |
| DOMINICAN REPUBLIC for Men-of-War | 3 | |
| „ „ for Mercantile Marine | 5 | |
| Dominion Line, Liverpool ... ... | 14 | 257 |
| Donald and Taylor, Glasgow ... ... | 13 | 216 |
| Donaldson, Bros., Glasgow ... ... | 23 | 670 |
| D'Orbigny A. and Faustin fils, Rochelle ... | 9 | 60 |
| Doward, Dickson, & Co., Liverpool ... | 23 | 656 |
| Dowie, J. Liverpool ... ... | 23 | 623 |
| Drogheda Steam Packet Co., Ld., Drogheda | 18 | 412 |
| Dublin and Glasgow Steam Packet Co., Dublin | 21 | 536 |
| Ducal Line, London ... ... | 21 | 533 |
| Duncan, P. M. & Sons, Dundee ... ... | 14 | 242 |
| Duncan, G. & Co., London ... ... | 24 | 692 |
| Dundee Clipper Line, Dundee ... ... | 23 | 630 |
| Dundee Gem Line, Dundee ... ... | 14 | 242 |
| Dundee Loch Line Steam Ship Co., Ld., Dundee | 14 | 268 |
| Dundee S. O. Co., Ld., Dundee ... ... | 15 | 281 |
| Dunlop, T. & Son, Glasgow ... ... | 12 | 169 |
| Dunlop, T. & Sons, Glasgow ... ... | 23 | 633 |
| Dunn, C. G. & Co., Liverpool .. ... | 11 | 153 |
| Dunn, C. G. & Co., Liverpool ... ... | 23 | 624 |
| Dunn, J. & Sons, Glasgow ... ... | 24 | 729 |
| Durham, Earl of, Sunderland ... ... | 21 | 542 |


Digitized by Google

## E.


| | Page. | No. of Flag. |
|---|---|---|
| Earl Line, Cardiff ... ... ... | 11 | 139 |
| Earn Line, London ... ... ... | 19 | 454 |
| Eastern and Australian Mail Steam Co., Ld., London | 18 | 418 |
| Eastern Steam Ship Co., London ... | 21 | 533 |
| Eastern Telegraph Co., London... ... | 14 | 280 |
| East and West Steam Ship Co., Ld., London | 17 | 381 |
| Eccles, E., Newcastle ... ... | 11 | 155 |
| ECUADOR for Men-of-War ... ... | 3 | |
| Edwards Cardiff and New York Line, Cardiff | 8 | 35 |
| Edwards, H. S., North and South Shields ... | 17 | 395 |
| Edmiston and Mitchell, Glasgow ... | 25 | 781 |
| Elder, Dempster & Co., London ... ... | 19 | 480 |
| Elder Line, London... ... ... | 23 | 664 |
| Elliott, Lowrey & Dunford, Newcastle ... | 18 | 438 |
| Ellis, H. & Son, London ... ... | 22 | 574 |
| Empresa Insulana de Navagaçao a Vapor, Lisbon | 19 | 464 |
| Empreza Nacional, Lisbon ... ... | 19 | 471 |
| ENGLISH NATIONAL FLAGS ... | 1 | |
| „ for Mercantile Marine ... | 4, 5 | |
| Evan, R. and J. & Co., Liverpool ... | 22 | 569 |
| Eyde, S., Arendal ... ... ... | 22 | 613 |
| Eyde, C. & Hein, Arendal ... ... | 22 | 616 |
| Eyrie, Evans & Co., Liverpool ... ... | 15 | 314 |
| Eyrie Shipping Co., Llanberis ... ... | 22 | 619 |


## F.


| | | |
|---|---|---|
| Fabre, Cyp. & Co., Marseilles ... ... | 19 | 445 |
| Falck, T. S., Stavanger ... ... | 10 | 83 |
| Falls Line, Glasgow... ... ... | 15 | 308 |
| Farmer, J. H. Liverpool ... ... | 25 | 768 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Farnworth and Jardine, Liverpool ... | 25 | 780 |
| Farrar, Groves & Co., London ... ... | 16 | 360 |
| Farrell, R., Youghal ... ... | 24 | 726 |
| Fenwick, J. & Sons, London .. ... | 10 | 100 |
| Fenwick & Co., London ... .. | 13 | 204 |
| Ferguson, Davidson & Co., Glasgow ... | 19 | 456 |
| Fernie, H. & Sons, Liverpool ... ... | 22 | 588 |
| Finska Angfartygs Aktie Bolaget, Helsingfors | 19 | 463 |
| Firth Line, Glasgow ... ... | 24 | 711 |
| Fisher, Renwick & Co. Newcastle ... | 19 | 457 |
| Fisher and Sprott, London ... ... | 22 | 584 |
| Flensburger Dampfs. Gesellschaft von 1869, Flensburg | 12 | 179 |
| Fletcher, G. H. & Co., Liverpool ... | 16<br>24 | 332<br>699 |
| Flinn, Main and Montgomery, Liverpool ... | 14 | 258 |
| Flornoy, L. & Fils, Nantes ... ... | 16 | 347 |
| Foley & Co., London ... ... | 23 | 621 |
| Forenede Dampskibs Selskab, Copenhagen... | 20 | 502 |
| Fornyade Angfartygs Aktiebolaget Gotha, Gothenburg ... ... ... | 19 | 444 |
| Fraissinet & Cie., Marseilles .. ... | 15 | 301 |
| FRANCE for Men of War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| France, W. & Co., London and Goole ... | 17 | 382 |
| French and Peninsular Steam Packet Co., Glasgow | 16 | 340 |
| Friend, E. C. & Co., Liverpool ... ... | 24 | 701 |
| Fritze, W. A. & Co., Bremen ... ... | 22 | 566 |
| Furness, C., W. Hartlepool ... ... | 20 | 504 |
| Furness Line, W. Hartlepool ... ... | 20 | 504 |


## G.


| | | |
|---|---|---|
| Galbraith, Pembroke & Co., London ... | 15 | 319 |
| Gambles, J., Harrington ... ... | 25 | 778 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Gardiner, J. & Co., Glasgow ... ... | 19 | 468 |
| Gardiner, G. N. Co., Liverpool ... ... | 22 | 589 |
| Gareloch Line, Glasgow ... ... | 23 | 626 |
| Gayner, R. H., Sunderland .. ... | 23 | 643 |
| Gellatly, Hankey, Sewell & Co., London ... | 24 | 683 |
| General Steam Navigation Company, London | 8 | 36 |
| General Shipping Co., Glasgow ... ... | 23 | 667 |
| GERMANY for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Gibsone, A. Danzig ... ... ... | 9 | 41 |
| Gibson, G. & Co., Leith ... ... | 15 | 303 |
| Gibson and Clark, Glasgow ... ... | 23 | 641 |
| Gibson, A. & Co., Liverpool ... ... | 25 | 754 |
| Gilchrist, R. & Co., Liverpool ... ... | 21 | 535 |
| Gildemeister & Ries, Bremen ... ... | 13 | 240 |
| Gillison and Chadwick, Liverpool ... | 24 | 736 |
| Gilroy, Sons & Co., Dundee ... ... | 22 | 572 |
| Gladstone and Cornforth, W. Hartlepool ... | 18 | 401 |
| Glasgow and Highlands Steam Ship Co., Glasgow | 15 | 296 |
| Glasgow Shipping Co., Glasgow ... | 22 | 592 |
| Glen Line, Newcastle ... ... | 9 | 59 |
| Globe Steam Ship Co., London ... ... | 19 | 443 |
| Globe Shipping Co., Liverpool ... ... | 23 | 624 |
| Glover, Bros., London ... ... | 14 | 248 |
| Glynn, J. & Son, Liverpool ... ... | 11 | 126 |
| Goffey, J. & W., Liverpool ... ... | 23 | 652 |
| Goldberg, S. & Sons, Swansea ... ... | 22 | 615 |
| Good, Flodman & Co., Hull ... ... | 13 | 234 |
| Goodyear & Co., Liverpool ... ... | 23 | 653 |
| Goole Steam Ship Co., Goole ... ... | 16 | 326 |
| Gordon, R. & Co., London ... ... | 17 | 374 |
| Gourley, E. T. & Co., Sunderland ... | 10 | 96 |
| Gow, Allan C. & Co., Glasgow ... ... | 12 | 193 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Graham, J. & Co., Newcastle ... ... | 15 | 286 |
| Grampian Steam Ship Co., Aberdeen ... | 10 | 93 |
| Gray, Sir W. & Co., W. Hartlepool ... | 17 | 366 |
| Gray, James, Whitby ... ... | 20 | 489 |
| Great Western Railway Co., London ... | 9 | 43 |
| Great Western Steam Ship Co., Ld., Bristol | 14 | 256 |
| Great Eastern Railway Co., London ... | 17 | 385 |
| GREECE for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine .. | 4 | |
| Greenock Steam Ship Co., Ld., Greenock ... | 9 | 65 |
| Green, F. & Co., London ... ... | 12 | 195 |
| Greenshields, Cowie & Co., Liverpool ... | 24 | 734 |
| Gregor, Turnbull & Co., Glasgow ... | 19 | 458 |
| Gribel. Rud. Christ, Stettin ... ... | 19 | 472 |
| GUATEMALA for Mercantile Marine ... | 5 | |
| Guion Line, Liverpool ... ... | 17 | 373 |
| Guibert, M. & fils, St. Servan ... ... | 25 | 743 |
| Guthrie, Macdonald, Hood & Co., Glasgow ... | 24 | 682 |


## H.


| | | |
|---|---|---|
| Hacquoil, J. P. & Co., Cardiff ... ... | 8 | 3 |
| Hain, E. & Co., St. Ives ... ... | 11 | 132 |
| Hallett, G., Cardiff ... ... ... | 11 | 152 |
| Hall, John, Junr. & Co., London ... | 13 | 212 |
| Hall Bros., Newcastle ... ... | 14 | 251 |
| Hall, J. & Co., Newcastle ... ... | 16 | 330 |
| Halvorsen, P. G., Bergen ... ... | 11 | 133 |
| Hamburg Sud-Amerikanische Dampfs. Gesellschaft, Hamburg ... ... ... | 14 | 250 |
| Hamburg Pacific Dampfs., Hamburg ... | 15 | 310 |
| Hamburg Amerikansche Packetfahrt Actien, Gesellschaft, Hamburg ... ... | 17 | 371 |
| Hamilton, Fraser & Co., Liverpool ... | 15 | 300 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Hamilton, W. & Co., Port Glasgow ... | 23 | 631 |
| Handcock, E. & Co., Cardiff ... ... | 19 | 451 |
| Hankey, T. & Co., London ... ... | 28 | 769 |
| Hanseatische Dampfs. Gesellachaft, Lubeck | 11 | 134 |
| Hansen, C. K., Copenhagen ... ... | 17 | 384 |
| Hardie, J. & Co., Glasgow ... .. | 25 | 752 |
| Hardy, Wilson & Co., Hartlepool ... | 12 | 174 |
| Hargrove and Hellon, Liverpool ... | 23 | 640 |
| Harloof and Boe, Bergen ... ... | 16 | 335 |
| Harper & Co., Southampton ... ... | 19 | 467 |
| Harris and Dixon, London ... ... | 16 | 341 |
| Harris, E. & Co., Middlesbro' ... ... | 21 | 545 |
| Harrison, T. & J., Liverpool ... ... | 9 | 50 |
| Harrison, Moore and Moore, Cardiff ... | 17 | 361 |
| Harrison, J. & Co., London ... ... | 18 | 428 |
| Harrison, T. & Co., Liverpool ... ... | 22 | 581 |
| Harrowing, R., Whitby ... ... | 21 | 544 |
| Hatfield, Cameron & Co., Glasgow ... | 22 | 617 |
| Haws, J. R. & Co., Liverpool ... ... | 25 | 764 |
| Haynes, Sons of Thos., Cadiz ... ... | 17 | 390 |
| HAYTI for Men-of-War ... ... | 3 | |
| „ for Mercantile Marine ... | 5 | |
| Hayton and Simpson, Liverpool ... | 24 | 685 |
| Heap, J. & Sons, Liverpool ... ... | 22 | 570 |
| Hellenic, Steam Navigation Co., Syra ... | 19 | 474 |
| Henderson Bros., Glasgow ... ... | 8 | 16 |
| Henderson, P. & Co., Glasgow .. ... | 10<br>16 | 86<br>338 |
| Herron, John, Liverpool ... ... | 23 | 662 |
| Herskind, F., W. Hartlepool ... ... | 18 | 403 |
| Hick, T. E., Scarborough ... .. | 10 | 117 |
| Hick, P., Junr., Scarborough ... ... | 10 | 118 |
| Hill, C. & Sons, Bristol ... ... | 18 | 434 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Hill, J. G., Cardiff ... ... ... | 20 | 505 |
| Hill, J. Ledger, Southampton ... .. | 20 | 506 |
| Hill Line, Liverpool ... ... | 24 | 712 |
| Hill Line, Glasgow ... ... | 25 | 749 |
| Hine Bros., Maryport ... ... | 14 | 244 |
| Hispano-Inglesa, Barcelona ... ... | 9 | 68 |
| Hogarth, Hugh, Glasgow .. ... | 17 | 391 |
| Hogg and Henderson, Middlesbro ... | 20 | 508 |
| Holdt and Isachsen, Stavanger . . .. | 20 | 495 |
| HOLLAND for Men-of-Men ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Holland Steam Ship Co., Amsterdam ... | 12 | 171 |
| Holland, A. & Co., London ... . | 19 | 462 |
| Holman, J. & Sons, London ... .. | 10 | 114 |
| Holt, Alfred, Liverpool ... ... | 19 | 476 |
| Honduras and Central American Steam Ship Co., Ld., Glasgow ... ... ... | 21 | 541 |
| Hopper, J., Sunderland ... ... | 15 | 290 |
| Hooper, Campbell & Co., Cardiff ... | 19 | 446 |
| Horsley, G., W. Hartlepool ... .. | 18 | 408 |
| Houlder Bros. & Co., London ... ... | 10 | 97 |
| Hough, E. J. & Co., London ... ... | 12 | 198 |
| Hoult, Joseph, Liverpool ... ... | 14 | 245 |
| Hoult Line, Liverpool ... ... | 14 | 245 |
| Houston, R. P. & Co., Liverpool... ... | 13 | 230 |
| Houston, J. & Sons, Liverpool ... ... | 24 | 696 |
| Hudson, R. M., Sunderland ... ... | 10 | 115 |
| Hudson, T. S., W. Hartlepool ... ... | 10 | 116 |
| Hunting and Pattison, Newcastle ... | 14 | 253 |
| Hurley, Matthews & Co., Cardiff ... | 11 | 135 |
| Hutchison, J. & P., Glasgow ... ... | 16 | 340 |


Digitized by Google

## I.


| | Page. | No. of Flag. |
|---|---|---|
| India Rubber, Gutta Percha and Telegraph Works, Co., Ld., London ... ... | 14 | 273 |
| Indo-China Steam Navigation Co., London ... | 20 | 483 |
| Inman and International Steam Ship Co., Ld., Liverpool ... ... ... | 8 | 11 |
| Inman Line, Liverpool .. ... | 14 | 269 |
| Inver Line, Aberdeen ... ... | 23 | 642 |
| Iredale, P. & Co., Liverpool ... ... | 25 | 770 |
| Irish Shipowners Co., Ld., Belfast ... | 20 | 494 |
| Irrawaddy Flotilla Co., Ld., Glasgow ... | 16 | 338 |
| Irvine, R. & Co., W. Hartlepool ... | 11 | 136 |
| Islands Line, Glasgow ... ... | 22 | 561 |
| Isle of Man Steam Packet Co., Ld., Douglas, I. M. | 11 | 148 |
| Isle Line, Newcastle ... ... | 10 | 108 |
| Ismay Imrie & Co., Liverpool ... ... | 22 | 602 |
| Ismay, Imrie & Co, Liverpool ... ... | 10 | 82 |
| ITALY for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... ... | 4 | |
| Italian Lloyd, Genoa ... ... | 15 | 317 |


## J.


| | | |
|---|---|---|
| Jackson, Beaumont & Co., Hull ... | 18 | 425 |
| Jacket Line, Cardiff .. ... | 11 | 152 |
| Jackson, Metcalf & Co., Liverpool ... | 17 | 380 |
| Jacobs, J. I. & Co., London ... ... | 25 | 763 |
| JAPAN for Men-of-War ... ... | 3 | |
| „ for Mercantile Marine ... ... | 5 | |
| Jarvis, W. C. & Sons, Liverpool ... | 22 | 576 |
| Jebsen, M., Apenrade ... ... | 20 | 493 |
| Jenkins, D. J. & Co., London ... ... | 12 | 181 |
| Johnston, S. & Co., Liverpool ... ... | 25 | 750 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Johnston, Sproule & Co., Liverpool ... | 23 | 636 |
| Johnston, W. & Co., Liverpool ... ... | 13 | 228 |
| Jones, R. W. & Co., Newport ... ... | 9 | 58 |
| Jones, R. and D., Liverpool ... ... | 19 | 447 |
| Jones, W. B. & Co., Swansea ... ... | 22 | 618 |
| Just, W. & Co., Liverpool ... ... | 23 | 646 |

## K.

| | | |
|---|---|---|
| Kellock, G. W. & Co., Liverpool ... | 22 | 595 |
| Kennedy, D. & Co., Liverpool ... ... | 24 | 693 |
| Kerr, J. & Co., Greenock ... ... | 23 | 654 |
| Kerr, Newton & Co., Glasgow ... ... | 24 | 732 |
| Kidston, G. J., Glasgow ... ... | 18 | 409 |
| Killick, Martin & Co., London ... ... | 25 | 751 |
| King, R. and W., Bristol ... ... | 22 | 571 |
| Kingsin Line, Hamburg ... ... | 9 | 78 |
| Kirsten, A., Hamburg ... ... | 9 | 70 |
| Kirsten, A., Hamburgh ... ... | 15 | 310 |
| Kish, T., Sunderland ... ... | 10 | 119 |
| Knott, J., Newcastle ... .. | 10 | 106 |
| Koninklyke Nederlandsche Stooms, Maatschappy, Amsterdam ... ... ... | 17 | 372 |
| Krupp, Fried, Essen ... ... | 21 | 543 |
| Kuhnle, S. M., Bergen ... ... | 13 | 238 |

## L.

| | | |
|---|---|---|
| Laeisz, F., Hamburg, ... ... | 22 | 563 |
| Laing, Arthur, Sunderland ... ... | 12 | 163 |
| Laing, James, Sunderland, ... ... | 12 | 164 |
| Laing, W. & Co., Leith ... ... | 10 | 109 |
| Laird Line, Glasgow ... ... | 15 | 297 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Laird, A. A. & Co. Glasgow ... ... | 15 | 298 |
| Lambert Bros., London ... ... | 8 | 31 |
| Lamont, H. Sons, Glasgow ... ... | 15 | 294 |
| Lamplough, W. & Co.,London ... ... | 17 | 381 |
| Lamplough, W. & E. S., London ... | 14 | 278 |
| Lamport and Holt, Liverpool ... ... | 15 | 283 |
| Lancaster Shipowners Co., Liverpool ... | 23 | 632 |
| Lange, Gebruder, Kiel ... ... | 20 | 482 |
| Langlands, M. & Sons, Glasgow ... | 15 | 293 |
| La Platense Flotilla Co., Ld., Glasgow ... | 10 | 86 |
| Lapraik, D. & Co., Hong Kong ... ... | 8 | 26 |
| Larrinaga & Co., Liverpool ... ... | 8 | 34 |
| La Veloce Nav. Italiana a Vapore, Genoa ... | 12 | 184 |
| Law, T. & Co., Glasgow ... ... | 23 | 678 |
| Lawther, S., Belfast... ... ... | 24 | 705 |
| Leach & Co., London, ... ... | 16 | 355 |
| Leadenhall Line, London ... ... | 23 | 649 |
| Leech, Harrison and Forwood, Liverpool ... | 17 | 383 |
| Leitch, A., Dundee ... ... ... | 14 | 268 |
| Leith, Hull and Hamburg Steam Ship Co., Leith | 16 | 327 |
| Lennard, J. M. & Son, Middlesboro' ... | 16 | 351 |
| Le Quellec A.C., Bordeaux ... ... | 25 | 766 |
| Leslie, W. & Co., Aberdeen ... ... | 8 | 13 |
| Letham, Wm., Greenock ... ... | 25 | 756 |
| Leyland, F. Liverpool ... ... | 11 | 146 |
| Leyland Line, Liverpool ... ... | 11 | 146 |
| LIBERIA for Men-of War ... ... | 2 | |
| Lidgett, J. & Sons, London ... ... | 24 | 695 |
| Lindsay, Gracie, & Co., Newcastle ... | 9 | 59 |
| Linea de Vapores Serra, Bilbao ... | 19 | 461 |
| Little, J. & Co., Barrow and Glasgow ... | 15 | 299 |
| Liverpool, Brazil & River Plate Steam Navigation Co., Liverpool ... ... | 15 | 282 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Liverpool Traders, Liverpool ... ... | 21 | 535 |
| Liverpool and Valparaiso Line, Liverpool .. | 24 | 707 |
| Lock Line, Liverpool ... ... | 25 | 765 |
| Lockett, W. & J., Liverpool .. ... | 24 | 704 |
| Lofthouse, C. M. & Co., Hull ... ... | 20 | 503 |
| London, Brighton & S. Coast Railway Co., London | 20 | 484 |
| London, Chatham and Dover Railway Co., London | 16 | 324 |
| Londonderry, Marquis of, Londonderry ... | 21 | 531 |
| London and Edinburgh Shipping Co., Leith | 12 | 180 |
| London & N. Western Railway Co., London | 9 | 75 |
| London & S. Western Railway Co., London | 17 | 362 |
| Lord, G. C. & Co., Boston, U.S.A. ... | 23 | 671 |
| Lord Line, Belfast ... ... ... | 20 | 494 |
| Lowden, Edgar & Co., Liverpool ... | 22 | 606 |
| Lubken, F. G., Elsfleth ... ... | 24 | 688 |
| Lumsden, Byers & Co., Sunderland ... | 16 | 353 |
| Lund, W., London ... ... ... | 18 | 429 |
| Lund's Line, London ... ... | 18 | 429 |
| Lyle, A. & Sons, Greenock ... ... | 25 | 761 |


## M.


| | | |
|---|---|---|
| MacBryde, D., Glasgow ... ... | 15 | 296 |
| MacIntyre, L. H. & Co., Liverpool ... | 25 | 747 |
| MacIver, D. & C., Liverpool ... ... | 15 | 295 |
| MacIver, D. & Co., Liverpool ... ... | 11 | 137 |
| Mackay, A. & A. Y., Grangemouth ... | 16 | 345 |
| Mackay, A. & Co., Glasgow ... ... | 22 | 597 |
| Mackie, R. & Co., Leith ... ... | 19 | 465 |
| Mackill, R. & Co., Glasgow ... ... | 8 | 8 |
| Maclay and MacIntyre, Glasgow ... | 19 | 469 |
| Maclean, Doughty & Co., W. Hartlepool ... | 11 | 138 |
| MacLean, N. & Co., Glasgow ... .. | 17 | 379 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| MacVicar, Marshall & Co., Liverpool ... | 12 | 189 |
| Mallory, C. H, & Co., New York ... | 15 | 292 |
| Marion Line, Glasgow ... ... | 22 | 573 |
| Marshall George & Sons, London ... | 12 | 194 |
| Marshall, J. F., Sunderland ... ... | 19 | 478 |
| Martin and Marquand, Cardiff ... ... | 11 | 139 |
| Martin, R. & Co., Dublin ... ... | 24 | 723 |
| Martinez de las Rivas. J.M., Bilbao ... | 9 | 57 |
| Marwood, J. & Sons, Whitby ... ... | 19 | 452 |
| Marychurch, J. & Co., Cardiff ... ... | 12 | 168 |
| Massey and Sawyer, Hull ... ... | 13 | 239 |
| Matthews & Luff, London ... ... | 20 | 486 |
| McCorkell, W. & Co., Londonderry ... | 25 | 767 |
| McDiarmid, Greenshields & Co., Liverpool ... | 25 | 776 |
| McGregor, Gow & Co., London ... .. | 13 | 229 |
| McIlwraith, McEacharn & Co., London ... | 24 | 717 |
| McIntyre Bros., Newcastle ... ... | 21 | 525 |
| Mediterranean and New York Steam Ship Co., Ld., Liverpool ... ... .. | 9 | 71 |
| Meinich, Jens & Co., Christiania ... | 15 | 316 |
| Mellin, O., Gothenburg ... ... | 17 | 397 |
| Merchant Trading Co., Liverpool ... | 24 | 735 |
| Merchants Steam Ship Co., London ... | 20 | 511 |
| Merryweather, J. & Co., W. Hartlepool ... | 11 | 140 |
| Mersey Steam Ship Co., Liverpool .. | 14 | 277 |
| Messageries Maritimes, Marseilles ... | 14 | 271 |
| Metropolitan Steam Ship Co., New York ... | 17 | 377 |
| Meursing, A. H., Amsterdam ... ... | 25 | 779 |
| MEXICO for Men-of-War ... ... | 3 | |
| „ for Mercantile Marine ... | 5 | |
| Middle Dock Co., S. Shields ... ... | 12 | 177 |
| Milburn Bros., Newcastle ... ... | 18 | 440 |
| Milburn, W. & Co., London ... ... | 9<br>11 | 67<br>141 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Milne, G. & Co., Aberdeen ... ... | 23 | 648 |
| Milvain, W. & Sons, Gateshead . . | 22 | 607 |
| Mogul Steam Ship Co., Ld., London ... | 13 | 210 |
| Montgomerie and Workman, London ... | 23 | 679 |
| Moran, Galloway & Co., Liverpool ... | 23 | 660 |
| Mordey and Carney, Newport ... ... | 19 | 455 |
| Morel Bros. & Co., Cardiff ... ... | 8 | 40 |
| Morgan Steam Ship Co., New York ... | 8 | 4 |
| MOROCCO, MUSCAT, ZANZIBAR for Men-of-War | 3 | |
| MOROCCO, TUNIS, ZANZIBAR for Mercantile Marine ... ... ... | 5 | |
| Morrison, J. & Son, N. Shields ... ... | 8 | 27 |
| Morton, H. T., Sunderland ... ... | 21 | 542 |
| Moss Steam Ship Co., Liverpool ... | 10 | 95 |
| Mount Line, Glasgow ... ... | 9 | 49 |
| Mudie, R. A. & Sons, Dundee ... ... | 20 | 481 |
| Müller, Chr., Christiania ... ... | 13 | 215 |
| Murrell, J. H. & Co., W. Hartlepool ... | 16 | 348 |
| Myers, W. J., Son & Co., Liverpool ... | 22 | 620 |


## N.


| | | |
|---|---|---|
| National Line, Liverpool ... ... | 13 | 231 |
| Nautilus Steam Ship Co., Ld., Sunderland ... | 9 | 54 |
| Nav. Gen. Italiana, Genoa ... ... | 14 | 275 |
| Neilsen, C. & Son, W. Hartlepool ... | 10 | 107 |
| Nelson, G. & Sons, Whitehaven and Liverpool | 14 | 241 |
| Nelson, Donkin & Co., Newcastle ... | 18 | 435 |
| Nelson & Co., Liverpool ... ... | 24 | 706 |
| Neptune Line, Sunderland ... ... | 13 | 214 |
| Netherlands India Steam Navigation Co., Batavia | 13 | 220 |
| Netherlands American Steam Navigation Co., Rotterdam ... ... ... | 18 | 419 |
| Neue Dampfer Cie, Stettin ... ... | 13 | 237 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Newton, Bros. & Co., London ... ... | 15 | 302 |
| Newton, J. D. & Co., Liverpool ... | 24 | 681 |
| New York, Havanna and Mexican Steam Ship Co., New York ... ... ... | 14 | 272 |
| New Zealand Shipping Co., London ... | 22 | 578 |
| New Zealand Shipping Co., London ... | 9 | 48 |
| Nicholson, R. & Sons, Liverpool ... | 17 | 378 |
| Nicholson, R. & Sons, Liverpool ... | 25 | 755 |
| Nicholson and McGill, Liverpool ... | 25 | 757 |
| Nicol, A. & Co., Aberdeen ... ... | 22 | 582 |
| Nicol, W. & Co., Liverpool ... ... | 25 | 771 |
| Nordenfjeldske Steam Ship Co., Drontheim | 12 | 176 |
| Norddeutscher Lloyd, Bremen ... ... | 18 | 430 |
| North British Shipping Co., Glasgow ... | 23 | 665 |
| NORWAY for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Norwood, C. M. & Co., London ... ... | 12 | 183 |
| Nott, W. H, London ... ... | 19 | 441 |
| N. of Scotland, Orkney and Shetland Steam Navigation Co., Aberdeen ... ... | 19 | 459 |
| Nourse, J., London ... ... ... | 24 | 686 |


## O.


| | | |
|---|---|---|
| Occidental and Oriental Line ... | 15 | 320 |
| Ocean Steam Ship Co., New York ... | 13 | 225 |
| Ocean Steam Ship Co., Liverpool ... | 19 | 476 |
| Old Dominion Steam Ship Co., New York ... | 16 | 346 |
| Orient Steam Navigation Co., London ... | 13 | 207 |
| Oriental Steam Ship Co., Ld. London ... | 13 | 217 |
| Osborn and Wallis, Cardiff, ... ... | 18 | 422 |
| Otto, George, N. Shields ... ... | 14 | 254 |
| Owen, H. & Son Carnarvon ... ... | 22 | 610 |


Digitized by Google

## P.


| | Page. | No. of Flag. |
|---|---|---|
| Pacific Steam Navigation Co., Liverpool ... | 13 | 208 |
| Pacific Mail Steam Ship Co., London .. | 15 | 291 |
| Pacific Coast Steam Ship Co., San Francisco | 16 | 359 |
| Palgrave, Murphy & Co., Dublin ... | 15 | 284 |
| Papayanni, & Co., Liverpool. ... ... | 20 | 512 |
| Paquet, N. & Cie., Marseilles ... ... | 16 | 329 |
| PARAGUAY for Men-of-War ... ... | 3 | |
| Pass Line, Glasgow ... ... | 23 | 641 |
| Peninsular and Oriental Steam Navigation Co., London ... ... .. | 18 | 407 |
| Penney, R. H., Brighton ... ... | 16 | 350 |
| Petersen, F. S. Grimstad ... ... | 23 | 666 |
| Pettersen, H. H. Arendal ... ... | 23 | 677 |
| PERSIA for Men-of-War ... ... | 2 | |
| Persian Gulf Steam Ship Co., Ld., London ... | 14 | 259 |
| PERU for Men-of-War ... ... | 3 | |
| „ for Mercantile Marine ... ... | 4 | |
| Phillips and Graves, London ... ... | 24 | 702 |
| Pinkney, D. G. & Sons, Sunderland ... | 12 | 173 |
| Pinkney, W. & T. W., Sunderland ... | 13 | 214 |
| Plate Steam Ship Co., Ld., London ... | 13 | 209 |
| Poole, Sir J. & Co., Liverpool ... ... | 22 | 591 |
| Port Line, Glasgow, ... ... | 24 | 710 |
| Porteous and Senier, London ... ... | 12 | 178 |
| PORTUGAL for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Powell, F. H. & Co., Liverpool ... ... | 12 | 175 |
| Powell, E. F. & Co., Liverpool ... ... | 24 | 691 |
| Powley, Thomas & Co., London & Cardiff ... | 19 | 449 |
| Price, W. R. & Co., London ... ... | 13 | 211 |
| Price, W. & Co., Liverpool ... ... | 24 | 712 |
| Prince Line, Newcastle ... ... | 10 | 106 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Pyman, Bros., London ... ... | 14 | 265 |
| Pyman, G. & Co., W. Hartlepool ... | 14 | 266 |
| Pyman, Bell & Co., Newcastle ... ... | 14 | 267 |
| Pyman, Watson & Co. Cardiff ... ... | 20 | 513 |

## Q.

| | | |
|---|---|---|
| Quebec Steam Ship Co., Quebec ... | 13 | 205 |
| Queen Steam Ship Co., Liverpool ... | 11 | 150 |
| Queen Line, Glasgow ... ... | 12 | 169 |

## R.

| | | |
|---|---|---|
| Raeburn and Verel, Glasgow ... ... | 11 | 156 |
| Raggio & Co., Genoa ... ... | 12 | 182 |
| Rankine, James & Son, Glasgow ... | 15 | 304 |
| Rankin, Gilmour & Co., Liverpool ... | 9 | 42 |
| Rankin, Gilmour, Strang & Co., London ... | 18 | 424 |
| Rankin, Gilmour & Co., Liverpool ... | 24 | 733 |
| Rathbone, Bros., Liverpool ... ... | 15 | 288 |
| Red D Line ... ... ... | 8 | 2 |
| Red R Steam Ship Co., Ld., Newcastle ... | 8 | 5 |
| Red Star Line, Antwerp ... .. | 8 | 22 |
| Rennie, J. T. & Sons, Aberdeen and London | 17 | 367 |
| Rennie, J. T. & Son, London ... ... | 24 | 709 |
| Richards, T. P. & Co., Swansea ... | 9 | 61 |
| Richards, Mills & Co., Liverpool ... | 12 | 161 |
| Richards, T. P. & Co., Swansea ... ... | 22 | 586 |
| Richards, Mills, & Co, Liverpool ... | 23 | 625 |
| Richardson, T. W., London ... ... | 18 | 405 |
| Richardson, J. & Co., Greenock... ... | 25 | 772 |
| Rickinson, Son & Co., W. Hartlepool ... | 10 | 81 |
| Rickmers Line, Bremerhaven ... ... | 18 | 416 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Rickmers Line, Bremerhaven ... ... | 24 | 722 |
| Ringrose, W. & G. L., Hull ... ... | 12 | 191 |
| Ritson, F. & W., Sunderland ... ... | 9 | 54 |
| Roberts, Hugh & Son, Newcastle ... | 16 | 323 |
| Roberts, E. F. & W., Liverpool ... ... | 24 | 700 |
| Robertson, Wm., Glasgow ... ... | 17 | 375 |
| Robertson, Cruikshank & Co., Liverpool ... | 24 | 703 |
| Robinson, J. & Co., N. Shields ... ... | 10 | 105 |
| Robinson Bros., Whitby .. .. | 21 | 537 |
| Roca, J. & Co., Barcelona ... ... | 16 | 357 |
| Rock Line, Glasgow ... ... | 22 | 580 |
| Rodenacker, Th., Danzig ... ... | 13 | 236 |
| Rogers & Co., Glasgow ... ... | 22 | 573 |
| Ropner, R. & Co., W. Hartlepool ... | 9 | 79 |
| Ross, W. H. & Co., Liverpool ... ... | 14 | 246 |
| Ross, W. & Co., London ... ... | 18 | 410 |
| Ross Line, London ... ... ... | 18 | 410 |
| Ross, W. H. & Co., Liverpool ... ... | 24 | 719 |
| Rotterdamsche Lloyd, Rotterdam ... | 12 | 199 |
| ROUMANIA for Men-of-War ... ... | 2 | |
| Rowe, P. & Sons, Cardiff ... ... | 9 | 62 |
| Rowland and Marwood Steam Ship Co., Ld., Whitby | 16 | 352 |
| Rowland, J., Whitby ... ... | 16 | 352 |
| Royal Danish State Rails, Copenhagen ... | 9 | 76 |
| Royal Mail Steam Packet Co., London .. | 12 | 190 |
| Royal Niger Co., London ... ... | 23 | 627 |
| Royden, T. & Sons, Liverpool ... ... | 24 | 694 |
| Roxburgh, J. & A., Glasgow ... ... | 22 | 608 |
| Rubattino & Co., Genoa ... ... | 12 | 188 |
| RUSSIA for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Russian Steam Navigation and Trading Co., St. Petersburg and Odessa .. | 15 | 311 |
| Ruys & Sons, Rotterdam ... ... | 13 | 201 |


Digitized by Google

## S.


| | Page. | No. of Flag. |
|---|---|---|
| Saenz, M. & Co., Sevill ... ... | 8 | 1 |
| SALVADOR for Mercantile Marine ... | 4 | |
| Salvesen, J. T. & Co. Grangemouth ... | 14 | 264 |
| SANDWICH for Men-of-War ... ... | 3 | |
| Sandback, Tinne & Co., Liverpool ... | 25 | 753 |
| Sanderson, G. R. & Co., Hull ... ... | 20 | 487 |
| Sartori and Berger, Kiel ... ... | 13 | 222 |
| Savannah Line, New York ... ... | 13 | 225 |
| Scammell, Bros., St. John, N. B. ... | 23 | 645 |
| Schoenberg and Domansky, Dantzig ... | 22 | 598 |
| Scholefield & Son, Newcastle ... ... | 12 | 165 |
| Scottish Oriental Co., Ld., Glasgow ... | 19 | 456 |
| Scott, John O., Newcastle ... ... | 20 | 500 |
| Scott, Bros., Newcastle ... ... | 21 | 539 |
| Scrutton, Sons & Co., London ... ... | 21 | 538 |
| Seaman, S. H., New York ... ... | 10 | 112 |
| Sewall, A. & Co., Bath, Main, U.S. ... | 25 | 773 |
| Shadforth, R. & Co., Sunderland ... | 20 | 499 |
| Shallcross and Higham, Liverpool ... | 22 | 567 |
| Shan Line, London ... ... ... | 18 | 405 |
| Shankland, R. & Co., Greenock ... | 24 | 777 |
| Sharp, & Co., Newcastle ... ... | 19 | 466 |
| Shaw, Bushby & Co., London ... ... | 12 | 167 |
| Shaw, Savill & Co., London ... ... | 23 | 629 |
| Shepherd, J., London ... ... | 25 | 746 |
| Shilston, W. Plymouth ... ... | 23 | 668 |
| Shire Line, London ... ... | 17 | 393 |
| SIAM for Men-of-War ... ... | 3 | |
| Siedenberg, Wendt & Co., Bremen ... | 24 | 718 |
| Sierra Line, Liverpool ... ... | 25 | 759 |
| Simpson, Bros. Swansea ... ... | 25 | 741 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Sinclair, W. P. & Co., Liverpool ... | 25 | 762 |
| Singlehurst, R. & Co., Liverpool ... | 8 | 28 |
| Skinner, T. & Co. Glasgow ... ... | 20 | 490 |
| Sloan, W. & Co., Glasgow ... ... | 20 | 514 |
| Sloman, R. M. & Co., Hamburg ... | 20 | 491 |
| Smith and Service, Glasgow ... ... | 9 | 49 |
| Smith, G. & Sons, Glasgow ... ... | 11 | 142 |
| Smith, T. and W., Newcastle ... ... | 19 | 448 |
| Smith, G. & Sons, Glasgow ... ... | 22 | 614 |
| Smith, A. and F., Tvedestrand ... ... | 23 | 637 |
| Société Gen. de Transports, Maritimes a Vapeur, Marseilles ... ... ... | 16 | 321 |
| Soc. Navale de l' Ouest, Havre ... | 18 | 431 |
| Sömme and Wattne, Stavanger... ... | 19 | 473 |
| Sondenfjelds-Norske Dampskibsselskab, Christiania | 14 | 260 |
| Southampton, I. of Wight and S. of England Royal Mail Steam Packet Co., Southampton | 16 | 322 |
| South Eastern Railway Co., London ... | 20 | 515 |
| SPAIN for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... ... | 4 | |
| Spartali, A. & Co., London ... ... | 11 | 143 |
| Spencer, J. & Co., Glasgow ... ... | 24 | 711 |
| Sprout, James, Liverpool ... ... | 25 | 765 |
| Stallybrass, C. E., Cardiff ... ... | 9 | 63 |
| Star Line, Liverpool ... ... | 15 | 288 |
| State Steam Ship Co., Glasgow ... | 15 | 307 |
| Staveley, Taylor & Co., Liverpool ... | 22 | 600 |
| Steel, Young & Co., London ... ... | 8 | 10 |
| Steel, J. & Son, Liverpool ... ... | 25 | 760 |
| Steeves, G. M., Liverpool ... ... | 10 | 120 |
| Stephens and Mawson, Newcastle ... | 5<br>8 | 53<br>9 |
| Stephens, Mawson and Goss, Newport ... | 8 | 32 |
| Stephen, A. & Sons, Dundee .. ... | 12 | 192 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Stephenson, Clark, & Co., London ... | 17 | 388 |
| Stephens, T. and Sons, London ... ... | 20 | 516 |
| Stewart, J. & W., Greenock ... ... | 9 | 66 |
| Stockholms Angfartygs, Rederi Bolag, Stockholm | 17 | 398 |
| Stoddart, Bros., Liverpool ... ... | 11 | 150 |
| Stoomvaart Maatschappy Rotterdam, Rotterdam | 12 | 200 |
| Stoomvaart Maatschappy Zeeland, Flushing | 13 | 224 |
| Stoomvaart Maatschappy, Nederland, Amsterdam | 13 | 226 |
| Stott, W. H. & Co. Liverpool ... ... | 11 | 121 |
| Strachan, H. & Co., Newcastle ... ... | 20 | 517 |
| Strong, Reid and Page, Liverpool ... | 17 | 376 |
| Stuart, Bros., Glasgow ... ... | 22 | 561 |
| Stuart and Douglas, Liverpool ... ... | 24 | 720 |
| Stumore, F. & Co., London ... ... | 20 | 492 |
| Suart, A. & Co., London ... ... | 8 | 14 |
| Sun Shipping Co., Liverpool ... ... | 19 | 450 |
| Sutherland, James, Liverpool ... ... | 24 | 697 |
| Svenska Lloyd, Gothenburg ... ... | 18 | 439 |
| Swansea Merchants Shipowners Co., Ld., Swansea | 24 | 737 |
| Swanston, H. & Sons, Newcastle ... | 14 | 243 |
| SWEDEN for Men-of-War ... ... | 2 | |
| „ for Mercantile Marine ... | 4 | |
| Swire, J. & Sons, London .. ... | 14 | 247 |
| Swyny, R. J. Liverpool ... ... | 24 | 725 |


## T.


| | | |
|---|---|---|
| Tandonnet, J. H. & Frères, Bordeaux ... | 19 | 470 |
| Tapscott, W. & Co., Liverpool ... ... | 15 | 309 |
| Tapscott Line, Liverpool ... ... | 15 | 309 |
| Tatham, Bromage & Co., London ... | 9 | 69 |
| Taylor, Jenneson, Sunderland ... ... | 8 | 29 |
| Taylor, W. O. & Co., Dundee ... ... | 15 | 281 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Taylor and Sanderson, Sunderland ... | 17 | 392 |
| Taylor, Cameron & Co., Liverpool ... | 20 | 518 |
| Tedcastle, R. & Co., Dublin ... ... | 23 | 659 |
| Telegraph Construction and Maintenance Co., Ld., London ... ... ... | 13 | 219 |
| Temperleys, Carter and Darke, London ... | 20 | 501 |
| Temperley, J., Newcastle ... ... | 20 | 507 |
| Temperleys, Carter and Darke ... ... | 24 | 738 |
| Thom and Cameron, Ld., Glasgow ... | 23 | 626 |
| Thomas, (Evan), Radcliffe & Co., Cardiff ... | 10 | 91 |
| Thomas, W. & Co., Liverpool ... ... | 11 | 144 |
| Thomas, W. & Son, Liverpool ... ... | 22 | 564 |
| Thomas, W. & Co., Liverpool ... ... | 22 | 575 |
| Thomas, R. & Co., Cricieth ... ... | 23 | 655 |
| Thompson, V. T. & Co., Sunderland ... | 8 | 33 |
| Thompson, G. & Co., Aberdeen and London... | 15 | 315 |
| Thompson, M. & Co., Cardiff ... ... | 16 | 333 |
| Thompson, G. & Co., London ... ... | 23 | 675 |
| Thompson, W. & Co., St. John, N.B. ... | 24 | 687 |
| Thompson, Anderson & Co., Liverpool .. | 25 | 759 |
| Thomson, W. & Co., Leith ... ... | 14 | 279 |
| Thomson and Gray, Glasgow ... ... | 22 | 585 |
| Thomson, Dickie & Co., Glasgow ... | 23 | 638 |
| Thomson, W., Dundee .. ... | 25 | 744 |
| Thin, E. C., Liverpool ... ... | 11 | 122 |
| Thule Steam Ship Co., Ld., Gothenburg ... | 17 | 397 |
| Tillett, W. J. & Co., Cardiff ... ... | 14 | 255 |
| Tindall, W. H. & Co., London ... ... | 15 | 313 |
| Tintore, P. M. & Co., Barcelona... ... | 9 | 68 |
| Tintore, F. M., Barcelona ... ... | 11 | 145 |
| Tomlinson, Hodgetts & Co., Liverpool ... | 24 | 721 |
| Tower Line, London ... ... | 20 | 492 |
| Trechman, O. & Co., W. Hartlepool ... | 21 | 546 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Trident Line, London ... ... | 8 | 15 |
| Trinder, Anderson & Co., London ... | 23 | 664 |
| Trinity House, Hon. Corporation of, London | 14 | 274 |
| Tulley, W. & Co., Hull ... ... | 13 | 235 |
| Tully, John, Sunderland ... ... | 8 | 6 |
| Turbull, Martin & Co., London ... ... | 17 | 393 |
| TURKEY, TRIPOLI AND EGYPT for Men-of-War | 2 | |
| Turnbull, W. & Sons, Whitby ... ... | 17 | 396 |
| Turnbull Bros., Cardiff ... .. | 21 | 540 |
| Turner, Edwards & Co., Bristol... ... | 10 | 84 |
| Turner, Brightman & Co., London ... | 20 | 519 |
| Tutton, M., Swansea ... ... | 23 | 644 |
| Tweedy, G. & Co., London ... ... | 8 | 15 |
| Twin Screw Steam Ship Co., London .. | 19 | 441 |
| Tyne Steam Ship Co., Gateshead ... | 8 | 37 |
| Tyne and Blyth S. O. Co., Ld., Newcastle ... | 18 | 427 |
| Tyser, G. D. & Co., London ... ... | 23 | 628 |
| Tyzack and Branfoot, Sunderland ... | 20 | 520 |


## U.


| | | |
|---|---|---|
| Ugland, J. L. Arendal ... ... | 23 | 622 |
| Ulster Steam Ship Co., Belfast ... ... | 17 | 364 |
| Union Pacific Railway Co., San Francisco ... | 10 | 85 |
| Union Steam Ship Co. of New Zealand, Dunedin N. Z. | 13 | 232 |
| Union Steam Ship Co., Southampton and London | 16 | 354 |
| UNITED STATES OF AMERICA for Men-of-War | 2 | |
| " " " for Mercantile Marine | 4 | |
| UNITED STATES OF COLUMBIA for Men-of-War | 3 | |
| United States and Brazil, Steam Ship Co., New York | 14 | 261 |
| URUGUAY for Men-of-War ... ... | 3 | |


Digitized by Google

## V.


| | Page. | No. of Flag. |
|---|---|---|
| Vagliano, Bros., London ... ... | 20 | 485 |
| Van Vessem, C. M., Rotterdam ... ... | 22 | 599 |
| VENEZUELA for Men-of-War... ... | 3 | |
| Victoria Steam Boat Assn., London ... | 9 | 80 |
| Village Line, Glasgow ... .. | 24 | 682 |


## W.


| | | |
|---|---|---|
| Wait, J. & J., Newcastle ... ... | 16 | 325 |
| Wakeham, S. & Son, Liverpool ... ... | 24 | 707 |
| Walmsley, J. B. & Co., Liverpool ... | 25 | 774 |
| Ware, James, Cardiff ... ... | 12 | 185 |
| Warrack, J. & Co., Leith ... ... | 17 | 386 |
| Warren, G. & Co., Liverpool ... ... | 10 | 101 |
| Waterford Steam Ship Co., Ld., Waterford... | 12 | 186 |
| Water Line, Liverpool ... ... | 17 | 380 |
| Watjen, D. H. & Co., Bremen ... ... | 25 | 775 |
| Watkins, W., London ... .. | 11 | 124 |
| Watson Bros., Glasgow ... ... | 22 | 594 |
| Watson, W. A., Sunderland ... ... | 8 | 18 |
| Watts, Ward & Co., London ... ... | 18 | 423 |
| Waverley Line, Liverpool ... ... | 15 | 287 |
| Weir, A. & Co., Glasgow ... ... | 23 | 669 |
| Wencke, B. & Sohne, Hamburg... ... | 25 | 782 |
| Wesencraft, R. H. & Co., Newcastle ... | 18 | 406 |
| Westcott and Laurance, London ... | 21 | 534 |
| West Hartlepool Steam Navigation Co., W. Hartlepool | 21 | 530 |
| West Indies and Pacific Steam Ship Co., Liverpool | 12 | 197 |
| Westergaard & Co., Christiania ... ... | 21 | 521 |
| Westoll, James, Sunderland ... ... | 18 | 426 |
| Wheatley, W. & Co., Liverpool ... ... | 13 | 206 |
| White Cross Line ... ... ... | 10 | 92 |
| White Star Line Liverpool ... ... | 10 | 82 |


Digitized by Google

| | Page. | No. of Flag. |
|---|---|---|
| Whitwill, M. & Sons, Bristol ... | 14 | 256 |
| Wigram, (Money) & Sons, London ... | 12 | 196 |
| Wilhelmsen, W., Tonsberg ... ... | 8 | 7 |
| Wilkie and Turnbull, N. Shields ... | 8 | 24 |
| Williams, Jones & Co., Llanberis ... | 22 | 619 |
| Williams, T. & Co., Liverpool ... ... | 23 | 657 |
| Williams, Torrey and Field, London ... | 21 | 523 |
| Williamson, Milligan & Co., Liverpool ... | 15 | 287 |
| Williamson, R. & Son, Worthington ... | 24 | 698 |
| Williamson, Milligan & Co., Liverpool ... | 23 | 650 |
| Willis, J. & Son, London ... ... | 24 | 708 |
| Wills, G. H. & Co., Cardiff ... ... | 16 | 334 |
| Wilson, J., Glasgow... ... ... | 22 | 604 |
| Wilson, Sons, & Co., Hull ... ... | 8 | 20 |
| Winge & Co., Christiania ... ... | 8 | 39 |
| Winslow, J. S. & Co., Portland, Maine ... | 24 | 731 |
| Woermann Line, Hamburg ... ... | 18 | 415 |
| Woodhead, T. D. & Co., Hull .. ... | 11 | 125 |
| Wood, J. & Co., W. Hartlepool ... ... | 16 | 349 |
| Wood, J. M., Liverpool ... ... | 21 | 526 |
| Woods, F., London ... ... ... | 8 | 17 |
| Woodside, W. J. & Co., Belfast ... ... | 10 | 88 |
| Woodside, W. J., Belfast .. ... | 22 | 562 |
| Worms, Josse & Co., Bordeaux ... ... | 20 | 497 |
| Worthington, J. H. & Co., Liverpool ... | 23 | 673 |
| Wright and Breakenridge, Glasgow ... | 15 | 308 |
| Wyllie, J. & A., Troon ... ... | 11 | 123 |


## Y.

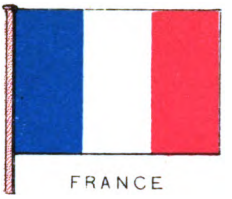

| | | |
|---|---|---|
| Yacht Line, Glasgow ... ... | 22 | 597 |
| Ybarra & Co., Seville ... ... | 20 | 509 |
| Yorkshire Coal and Steam Ship Co., Ld., Goole | 17 | 368 |
| Young, Ehlers & Co., London ... ... | 8 | 30 |

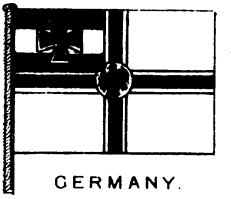

Digitized by Google

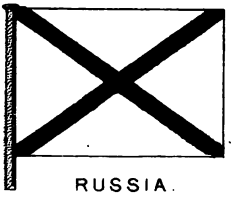
Digitized by Google

# NATIONAL ENSIGNS FOR MEN OF WAR.

UNITED STATES OF AMERICA.


FRANCE

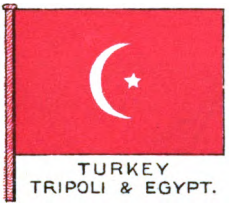

GERMANY.


RUSSIA.

AUSTRIA.

SPAIN.

ITALY


TURKEY
TRIPOLI & EGYPT.

LIBERIA.

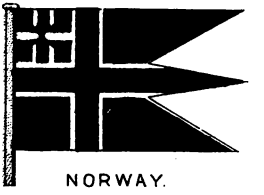
BELGIUM.

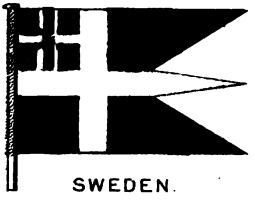
HOLLAND.

GREECE.

PURTUGAL.

DENMARK.


NORWAY.


SWEDEN.

ROUMANIA.

PERSIA

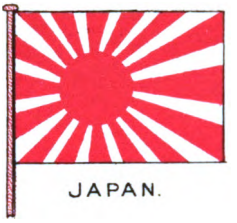
Griffin & Co Portsmouth

Digitized by Google

Digitized by Google

# NATIONAL ENSIGNS FOR MEN OF WAR.

CHINA.


JAPAN.

BRAZIL.

MEXICO.

CHILI.

PERU.

BOLIVIA.

VENEZUELA.

ECUADOR.

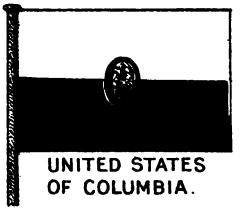
PARAGUAY.

URUGUAY.

HAYTI.

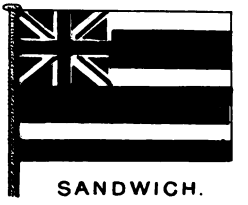
DOMINICAN REPUBLIC.

ARGENTINE REPUBLIC


UNITED STATES OF COLUMBIA.

SIAM.

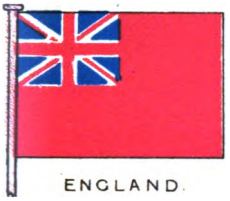
MOROCCO. MUSCAT & ZANZIBAR

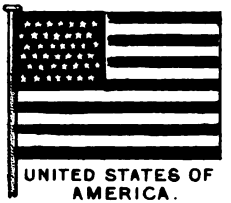

SANDWICH.

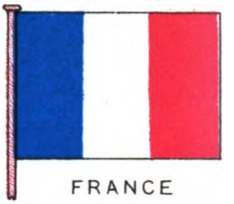
Digitized by Google

Digitized by Google

# NATIONAL COLOURS FOR MERCANTILE MARINE.


ENGLAND.

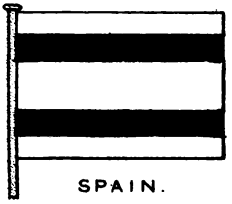

UNITED STATES OF AMERICA.


FRANCE

GERMANY.

RUSSIA.

AUSTRO-HUNGARY.


SPAIN.

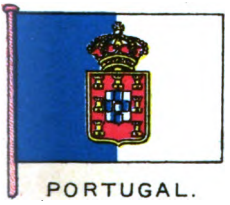
ITALY.

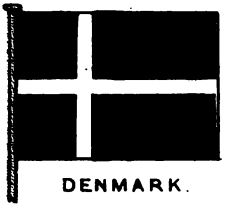
SALVADOR.

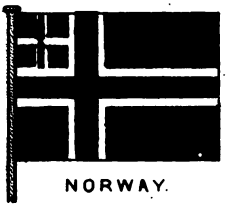
BELGIUM.

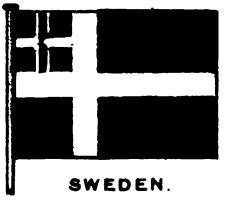
HOLLAND

GREECE

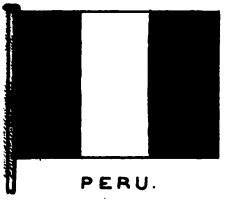

PORTUGAL.


DENMARK.


NORWAY.


SWEDEN.

BRAZIL.

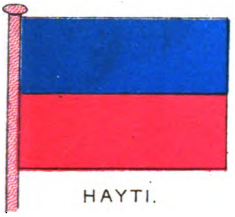

PERU.

Digitized by Google

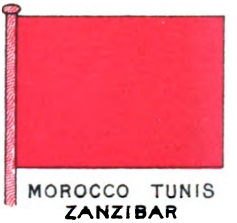
Portsmouth

Digitized by Google

# NATIONAL COLOURS FOR MERCANTILE MARINE.


HAYTI.

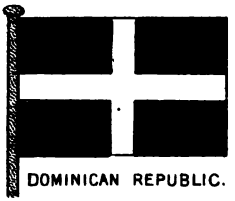
CHILI.

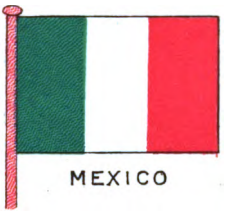

MOROCCO TUNIS
ZANZIBAR

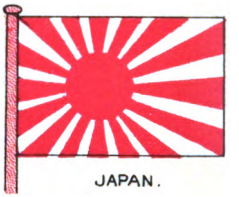
GUATEMALA

ARGENTINE REPUBLIC

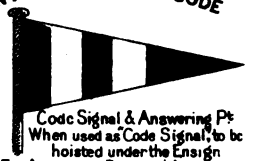
COSTA RICA

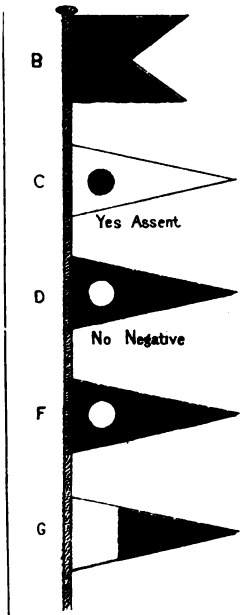

DOMINICAN REPUBLIC.

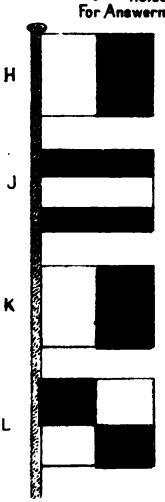

MEXICO

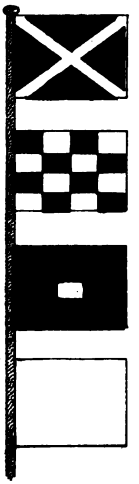

JAPAN.

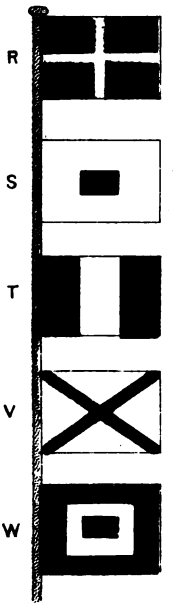
## INTERNATIONAL CODE




Griffin & Co Portsmouth

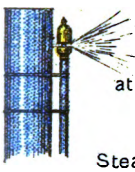
Digitized by Google

Digitized by Google

# FOG SIGNALS.

## STEAM VESSEL

STEAM WHISTLE

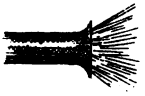


ONE PROLONGED BLAST, at intervals not more than 2 minutes.

Steam Vessel UNDER WAY.

## SAILING VESSEL

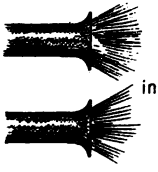
FOG HORN



ONE BLAST, at intervals of not more than 2 minutes.

Sailing Vessel on STARBOARD tack.

FOG HORN



TWO BLASTS, in succession, at intervals of not more than 2 minutes.

Sailing Vessel on PORT tack.

FOG HORN

THREE BLASTS, in succession at intervals of not more than 2 minutes.

Sailing Vessel with wind ABAFT THE BEAM.

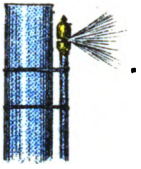
A BELL, rung at intervals of not more than 2 minutes.

Steam or Sailing Vessel when NOT under weigh.

# OPTIONAL SIGNALS,

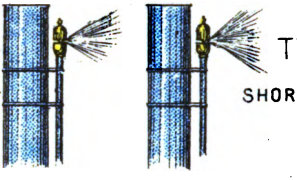
by a Steam Vessel under way.

STEAM WHISTLE



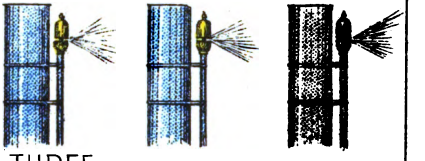
ONE SHORT BLAST "I am directing my course to STARBOARD"

STEAM WHISTLE



TWO SHORT BLASTS "I am directing my course to PORT"

STEAM WHISTLE



THREE SHORT BLASTS "I am going full speed astern."

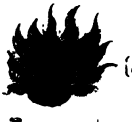
## SIGNALS OF DISTRESS.

A GUN at intervals of about a minute.

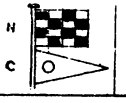
or

ROCKETS OR SHELLS of any colour or description fired one at a time at short intervals.

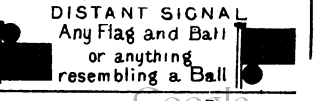
or



FLAMES ON THE SHIP. (as from a burning tar barrel or oil barrel &c.)




DISTANT SIGNAL Any Flag and Ball or anything resembling a Ball

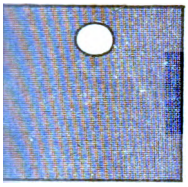




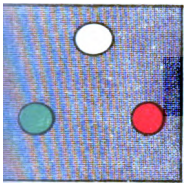
Digitized by Google

Digitized by Google

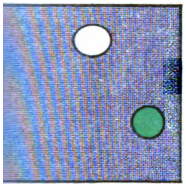
# VESSELS' LIGHTS AS SEEN BY A LOOK-OUT-MAN.



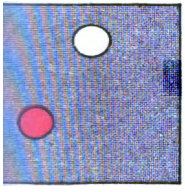
Vessel at Anchor,
or
Vessel overtaken by another.



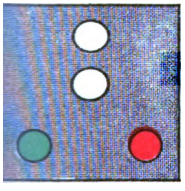
Steam Vessel under way
BOWS ON.



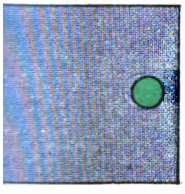
Steam Vessel moving towards
the RIGHT.



Steam Vessel moving towards
the LEFT.

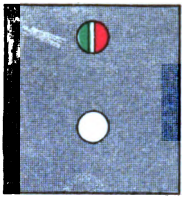


Steam Vessel, with another vessel
in tow
BOWS ON.

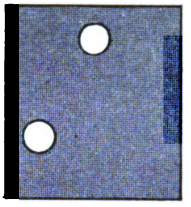


Sailing Vessel moving towards
the RIGHT.

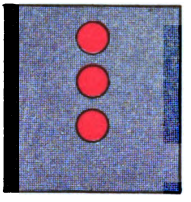
Sailing Vessel moving towards
the LEFT.



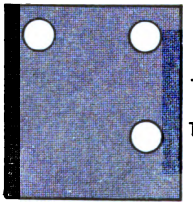
Steam Trawling Vessel,
or
same as other steamers.



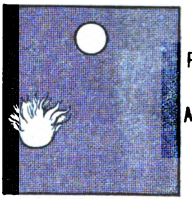
Drift Net Fishing Vessel.
(A flare up in addition
is optional)



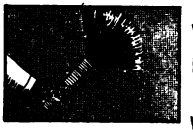
Steam or Sailing Vessel
not under command, in
consequence of any accident
& therefore unable to get
out of the way.



Wreck marking Vessel.
The wreck is on the side with one light,
The channel is clear on the side where
two lights are displayed.



Pilot Vessel on Pilotage duty.
A flare-up at short intervals which
shall never exceed 15 minutes.



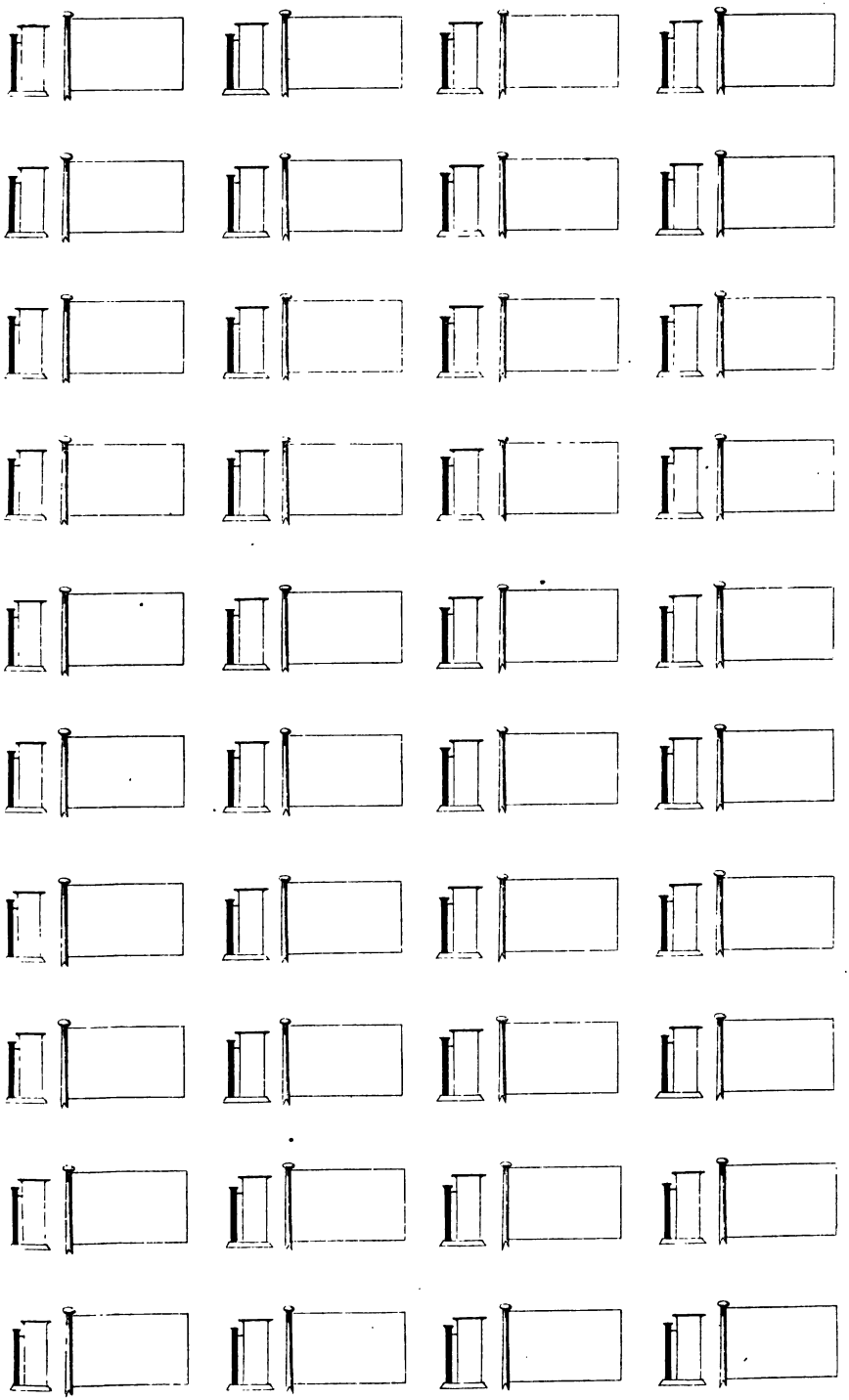
Vessel wanting a Pilot.
Blue light every 15 minutes,
or
White light flashed at short or frequent
intervals for about a minute at a time.


Copyright.

Digitized by Google

Digitized by Google

# STEAM VESSELS.

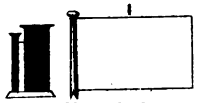



COPYRIGHT

Digitized by Google

Digitized by Google

# STEAM VESSELS.



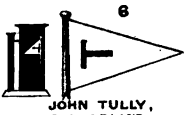
1
M. SAENZ & Cº
SEVILLE.

2
RED D LINE.

3
J. P. HACQUOIL & Cº
CARDIFF.

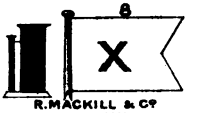
4
MORGAN S.S. Cº
NEW YORK.

5
RED "R" S. S. Cº Lº
STEPHENS & MAWSON
NEWCASTLE.



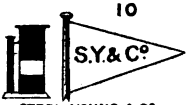
6
JOHN TULLY,
SUNDERLAND.

7
W. WILHELMSEN,
TONSBERG.



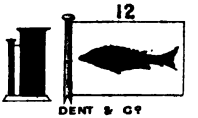

8
R. MACKILL & Cº
GLASGOW.

9
MARQUIS DE CAMPO,
MADRID.




10
STEEL, YOUNG & Cº
LONDON.

11
INMAN & INTERNATIONAL
S. S. Cº Lº (INMAN LINE)
LIVERPOOL.

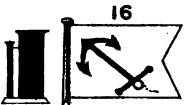


12
DENT & Cº
NEWCASTLE.

13
W. LESLIE & Cº,
ABERDEEN & GLASGOW S.S. Cº
ABERDEEN

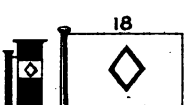
14
A. SUART & Cº
LONDON.

15
G. TWEEDY & Cº
TRIDENT LINE,
LONDON.

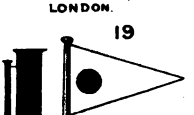


16
ANCHOR LINE
HENDERSON BROS
GLASGOW.

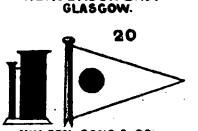
17
F. WOODS,
LONDON.



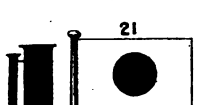
18
W. A. WATSON.
SUNDERLAND.



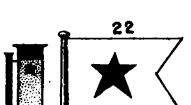
19
BELFAST S. S. Cº
BELFAST.



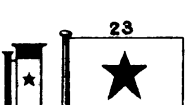
20
WILSON, SONS & Cº
HULL.



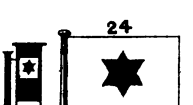
21
BOSTON & PHILADELPHIA S.S. Cº
BOSTON, U.S.



22
RED STAR LINE (BELGIAN)
ANTWERP.



23
ADAM, HAMILTON & Cº
GREENOCK.

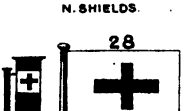


24
WILKIE & TURNBULL,
N. SHIELDS.

25
CHARGEURS REUNIS,
HAVRE.

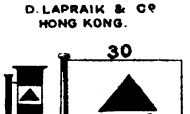
26
D. LAPRAIK & Cº
HONG KONG.

27
J. MORRISON & SON,
N. SHIELDS.



28
R. SINGLEHURST & Cº
LIVERPOOL.

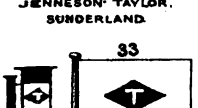
29
JENNESON· TAYLOR,
SUNDERLAND.



30
COMMERCIAL S. S. Cº LIMº
YOUNG, EHLERS & Cº
LONDON.

31
LAMBERT BROS,
LONDON.

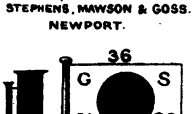
32
STEPHENS, MAWSON & GOSS.
NEWPORT.




33
V. T. THOMPSON & Cº
SUNDERLAND.

34
LARRINAGA & Cº
LIVERPOOL.

35
EDWARD'S
CARDIFF & N. YORK LINE.
CARDIFF.

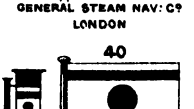



36
GENERAL STEAM NAV: Cº
LONDON

37
TYNE S. S. Cº
GATESHEAD.

38
COMPAGNIE GENERALE.
TRANSATLANTIQUE.
PARIS.

39
WINGE & Cº
CHRISTIANIA.

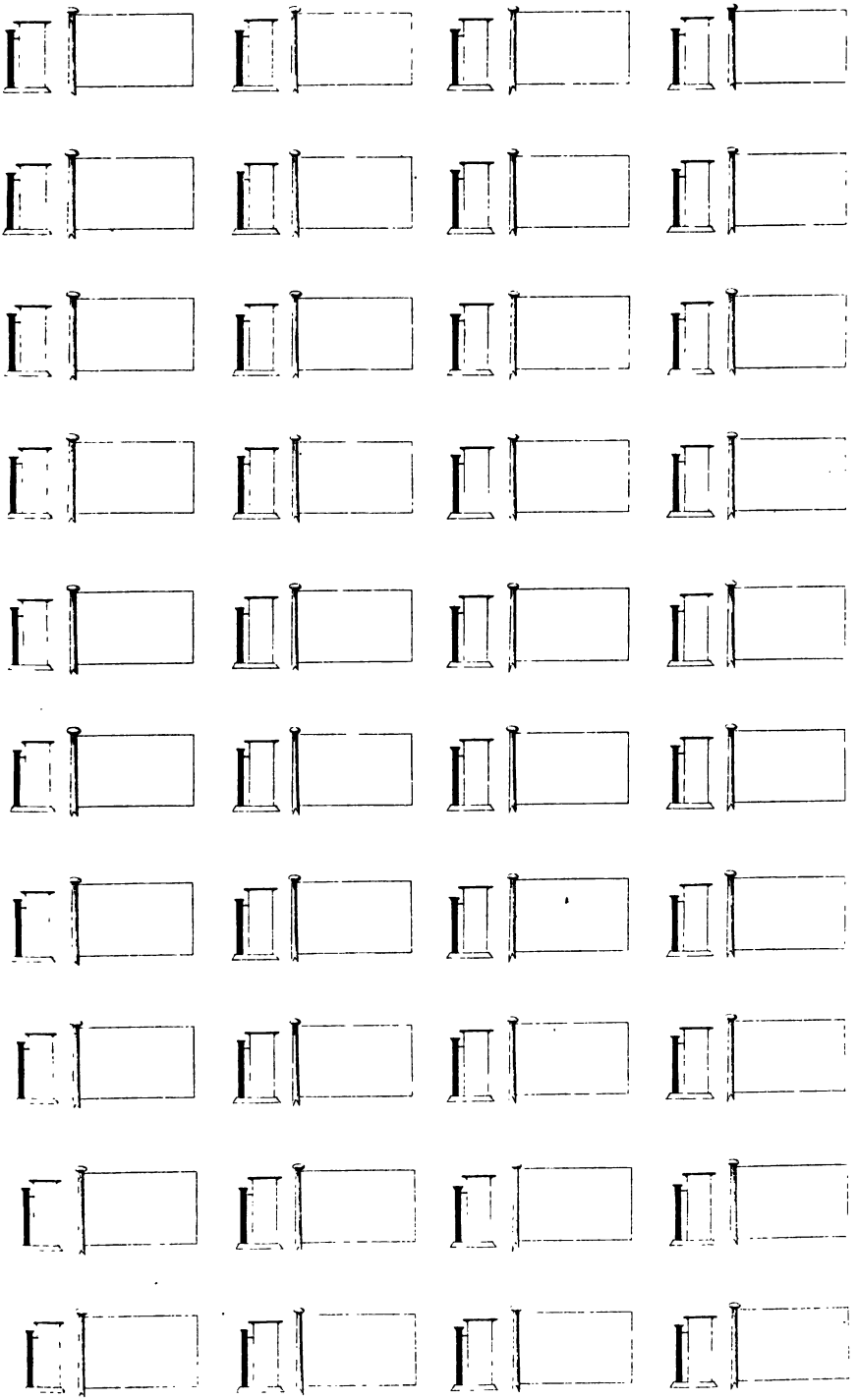


40
MOREL BROS. & Cº
CARDIFF.

Digitized by Google

Digitized by Google

# STEAM VESSELS.




COPYRIGHT
Digitized by Google

Digitized by Google

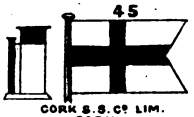
# STEAM VESSELS.

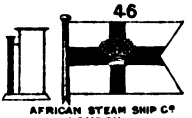
41
A. GIBSONE.
DANZIG.

42
RANKIN, GILMOUR & Co
BRITISH & FOREIGN S.S. Co Ld
LIVERPOOL

43
GREAT WESTERN RAILY Co
LONDON.

44
ANGFARTYGS REDERI
BOLAGET SVITHIOD.
GOTHENBURG.


45
CORK S.S. Co LIM.
CORK.


46
AFRICAN STEAM SHIP Co
LONDON.

47
CITY OF CORK S. P. Co
CORK

48
NEW ZEALAND SHIPPING Co
LONDON.

49
SMITH & SERVICE.
MOUNT LINE.
GLASGOW.

50
T & J. HARRISON,
CHARENTE S.S. Co Ld,
LIVERPOOL.

51
BAILEY & LEETHAM.
HULL.

52
BRITISH INDIA STEAM NAV. Co.
LONDON.

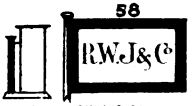
53
STEPHENS & MAWSON,
NEWCASTLE.

54
NAUTILUS S.S. Co Ld.
(F & W. RITSON) SUNDERLAND.

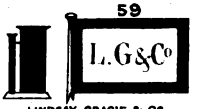
55
Cia SUD AMERICANA DE VAP.
VALPARAISO.

56
CHINESISCHE KUSTENFAHRT,
GESELLSCHAFT,
HAMBURG.

57
J. M. MARTINEZ DE LAS RIVAS.
BILBAO.

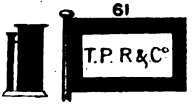


58
R. W. JONES & Co
NEWPORT.



59
LINDSAY, GRACIE & Co,
GLEN LINE, NEWCASTLE.

60
A. D'ORBIGNY & FAUSTIN FILS.
ROCHELLE.



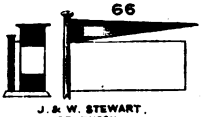
61
T. P. RICHARDS & Co
SWANSEA.

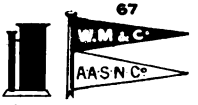
62
P. ROWE & SONS,
CARDIFF.

63
C. E. STALLYBRASS,
CARDIFF.

64
GAY, HALL & Co
NEWCASTLE.

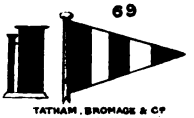
65
GREENOCK S.S. Co LIMD
GREENOCK.

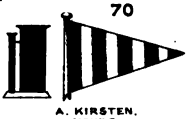

66
J. & W. STEWART.
GREENOCK.



67
ANGLO AUSTRALASIAN S.N. Co Ld,
W. MILBURN & Co
LONDON.

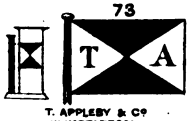
68
P. M. TINTORE & Co
HISPANO-INGLESA.
BARCELONA.


69
TATHAM, BROMAGE & Co
LONDON.


70
A. KIRSTEN.
HAMBURG.

71
MEDITERRANEAN & NEW YORK
S.S. Co Ld
LIVERPOOL.

S. S. Co Ld
LONDON.



73
T. APPLEBY & Co
W. HARTLEPOOL.

74
CAW. PRENTICE, CLAPPERTON & Co
(DIRECT LINE) GLASGOW.

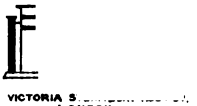
75
LONDON & N.W. RY Co
LONDON.

ROYAL
COPENHAGEN.

77
R. CONAWAY & Co
LIVERPOOL

78
DEUTSCHE DAMPFS. "RHEDEREI"
(KINGSIN LINE) HAMBURG.

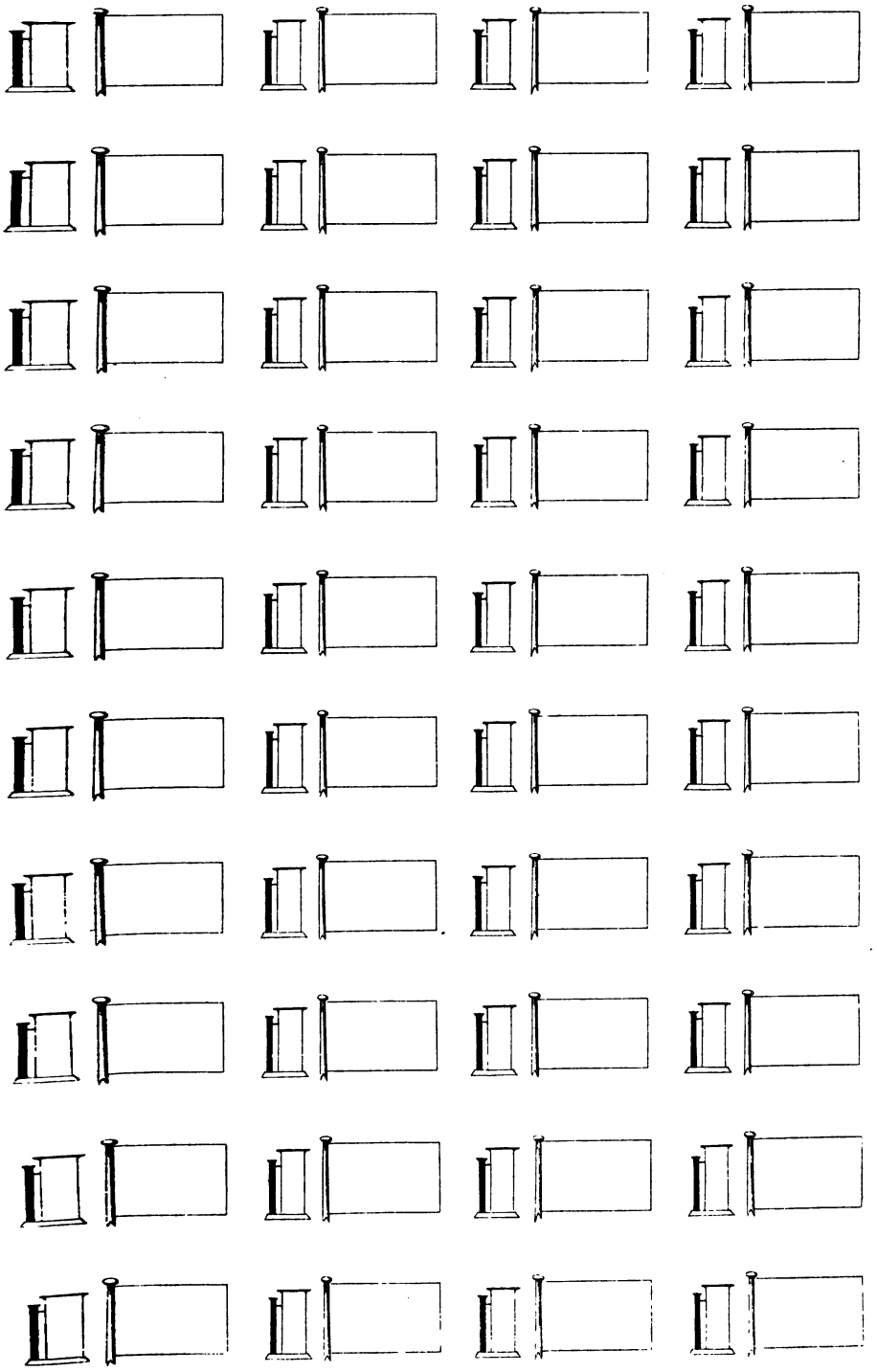
79
R. ROPNER & Co
W. HARTLEPOOL.


VICTORIA S
LONDON.

Digitized by Google

Digitized by Google

# STEAM VESSELS.



GRIFFIN & Co

COPYRIGHT

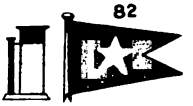
Digitized by Google

PORTSMOU

Digitized by Google

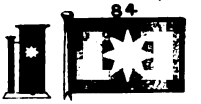
# STEAM VESSELS.

RICKINSON, SON & Cº
W HARTLEPOOL.

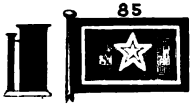



WHITE STAR LINE,
ISMAY IMRIE & Cº
LIVERPOOL.

T. S. FALCK.
STAVANGER



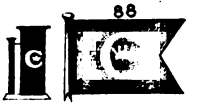

TURNER, EDWARDS & Cº
BRISTOL




UNION PACIFIC RAILWAY Cº
SAN FRANCISCO.

LA PLATENSE FLOTILLA Cº Lº
(P HENDERSON & Cº) GLASGOW.

CHIRKET-HAIRIE,
BOSPHORUS LINE,
CONSTANTINOPLE

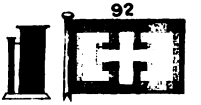



COUNTY S. S. Cº Lº
W. J. WOODSIDE & Cº
BELFAST

DAMPSKIBSSELSKABET,
DANMARK,
COPENHAGEN

COMPANIA FILIPINAS.

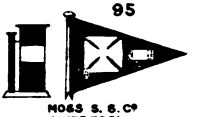
EVAN THOMAS, RADCLIFFE & Cº
CARDIFF.



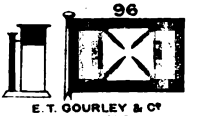

WHITE CROSS LINE.

ADAM S. S. Cº Lº
GRAMPIAN S. S. Cº Lº
(ADAM & Cº) ABERDEEN.

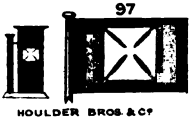
J CHRISTENSEN,
BERGEN




MOSS S. S. Cº
LIVERPOOL

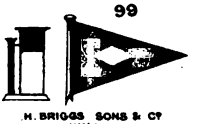



E. T. GOURLEY & Cº
SUNDERLAND.




HOULDER BROS. & Cº
LONDON.

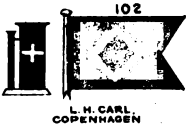
DAMPFS-RHEDEREI HANSA,
HAMBURG.



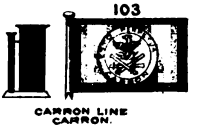

H. BRIGGS SONS & Cº
HULL.

J. FENWICK & SONS.
LONDON.

G. WARREN & Cº
LIVERPOOL.



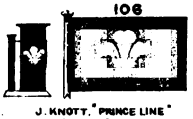

L. H. CARL,
COPENHAGEN




CARRON LINE
CARRON.

CAYZER, IRVINE & Cº
GLASGOW.

J. ROBINSON & Cº
N. SHIELDS.




J. KNOTT, "PRINCE LINE"
NEWCASTLE.

C. NIELSEN & SON.
W. HARTLEPOOL.

DI
NEWCASTLE.

W. LAING & Cº
LEITH.

AMERICAN S. S. Cº
LONDON.

T. BEYNON & Cº Lº
NEWPORT.

NEW YORK.

W. DICKINSON & Cº
NEWCASTLE

J. HOLMAN & SONS.
LONDON.

R. M. HUDSON.
SUNDERLAND.

T. S. HUDSON,
W HARTLEPOOL

T. E. HICK.
SCARBOROUGH.

P. HICK, Jun
SCARBOROUGH.

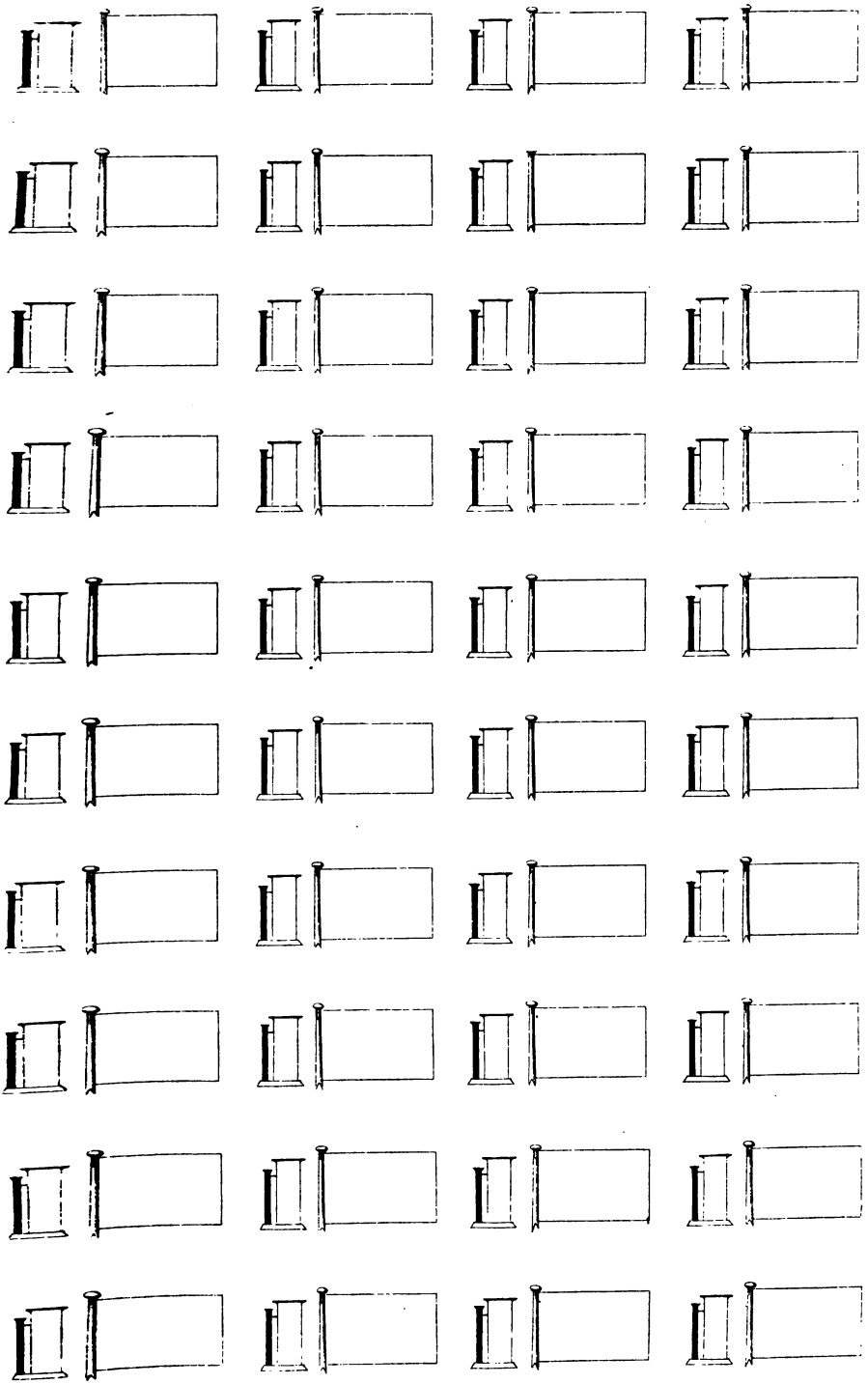
T. KISH.
SUNDERLAND.

LIVERPOOL.

Digitized by Google

Digitized by Google

# STEAM VESSELS.



Digitized by Google

Digitized by Google

# STEAM VESSELS.

W. H. STOTT & Co
LIVERPOOL.

E. C. THIN,
LIVERPOOL.

J. & A. WYLLIE.
TROON.

W. WATKINS,
LONDON

T. D. WOODHEAD & Co
HULL.

J. GLYNN & SON,
LIVERPOOL.

H. BUCKNALL & SONS, LIMD
LONDON.

CLAPHAM S. S. Co LD
NEWCASTLE.

COVERDALE, TODD & Co
HARTLEPOOL.

CULLIFORD & CLARK,
SUNDERLAND.

BOLTON & KENNETH,
LONDON

E. HAIN & Co.
ST IVES.

P. G. HALVORSEN,
BERGEN.

HANSEATISCHE DAMPFS. GES.
LUBECK.

HURLEY, MATTHEWS & Co,
CARDIFF

R. IRVINE & Co.
W. HARTLEPOOL

D. MAC IVER & Co
LIVERPOOL.

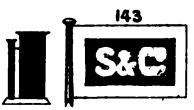
MACLEAN, DOUGHTY & Co
W. HARTLEPOOL.

MARTIN & MARQUAND,
"EARL LINE" CARDIFF.

J. MERRYWEATHER & Co
W. HARTLEPOOL

W. MILBURN & Co
LONDON.

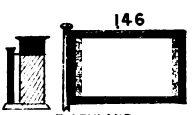
G. SMITH & SONS,
GLASGOW




A. SPARTALI & Co
LONDON

W. THOMAS & Co,
LIVERPOOL

F. M. TINTORÉ,
COMPA HISPANO-ARGELINA.
BARCELONA



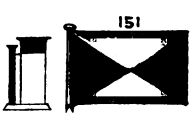

F. LEYLAND,
(LEYLAND LINE)
LIVERPOOL

CUNARD LINE,
LIVERPOOL.

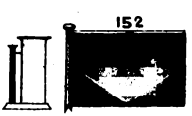
ISLE OF MAN, S.P. Co. LD
DOUGLAS, I. M.

CHINA MERCHANTS S.N. Co
SHANGHAI.

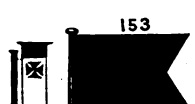
QUEEN S.S. Co
(STODDART BROS)
LIVERPOOL.




AUSTRALASIAN S. NAV. Co
SYDNEY



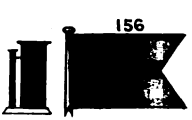

G. HALLETT.
(JACKET LINE) CARDIFF.



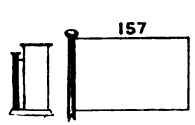

C. G. DUNN & Co
LIVERPOOL

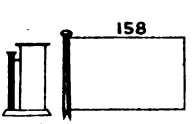
BLACK DIAMOND S. S. Co LD
MONTREAL

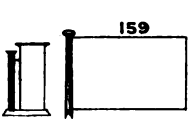
E. ECCLES.
NEWCASTLE.

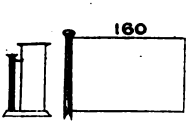



RAEBURN & VEREL.
GLASGOW.



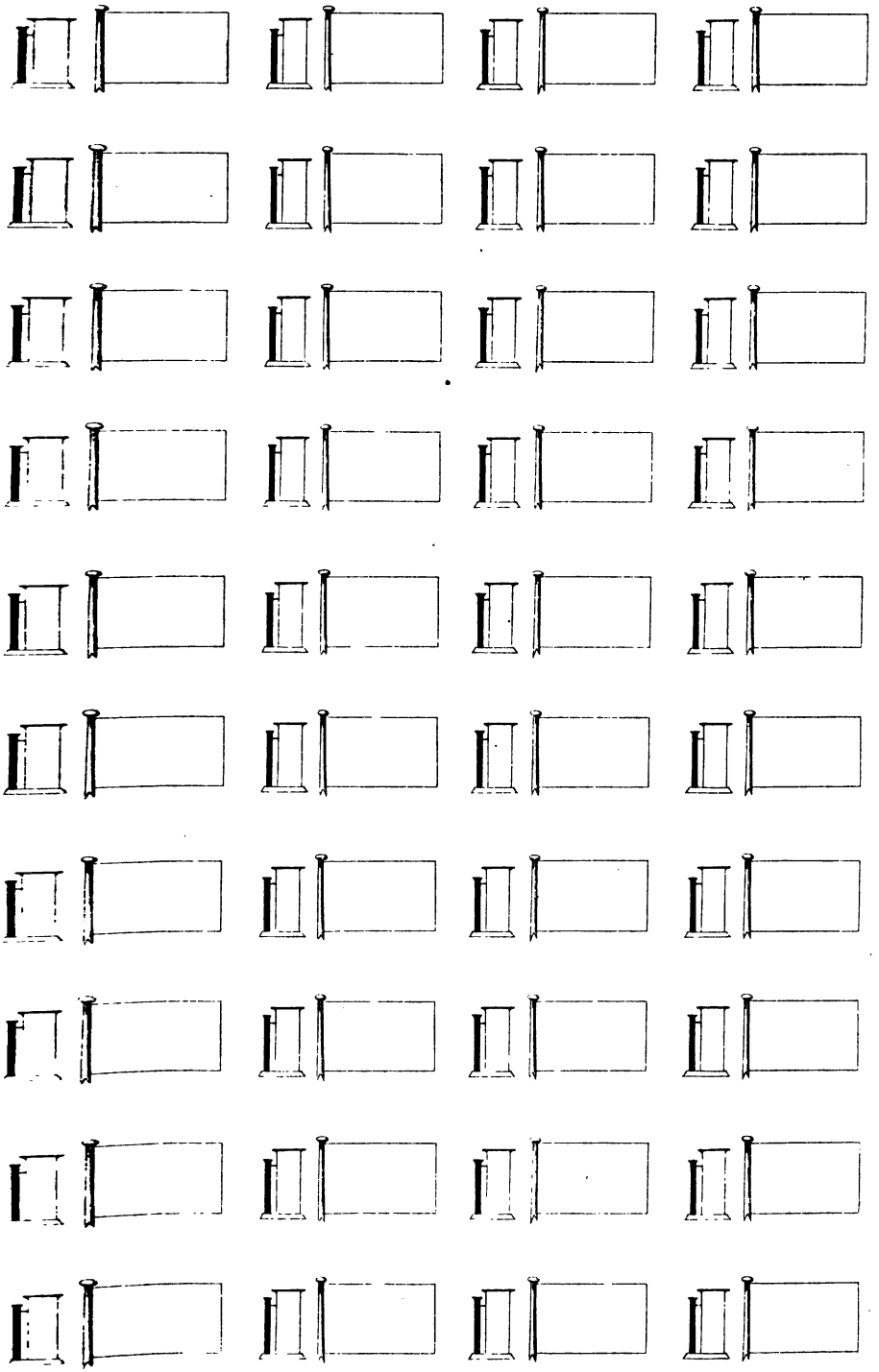




Digitized by Google

Digitized by Google

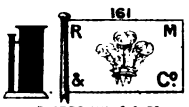
# STEAM VESSELS.



Digitized by Google

Digitized by Google

# STEAM VESSELS.



RICHARDS, MILLS & Co.
LIVERPOOL

CLARK & SERVICE.
GLASGOW.

ARTHUR LAING
SUNDERLAND

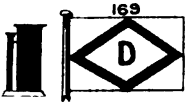
JAMES LAING.
SUNDERLAND

H. SCHOLEFIELD & SON,
NEWCASTLE.

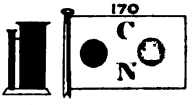
ANGFARTYGS BOLAGET,
SODRA SVERIGE,
STOCKHOLM.

SHAW, BUSHBY & Co
LONDON.

J. MARYCHURCH & Co
CARDIFF



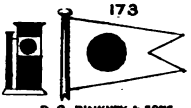
T. DUNLOP & SONS.
"QUEEN LINE" GLASGOW.



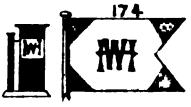
Cie NATIONALE DE NAV.
MARSEILLES.

HOLLAND S.S. Co
AMSTERDAM.

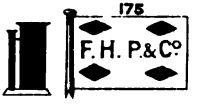
Cie NANTAISE DE NAV. A VAPEUR.
NANTES.



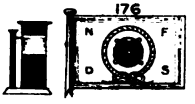
D. G. PINKNEY & SONS,
SUNDERLAND.



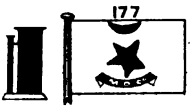
HARDY, WILSON & Co
W. HARTLEPOOL.



F. H. POWELL & Co
LIVERPOOL, BRISTOL & LONDON S.S. Co
LIVERPOOL

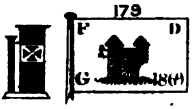


NORDENI JELDSKE S.S. Co
DRONTHEIM.

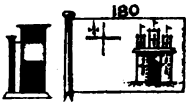


MIDDLE DOCK Co
S. SHIELDS.

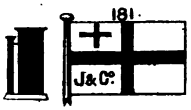
PORTEOUS & SENIER,
LONDON.



FLENSBURGER DAMPFS: GES:
V. 1869. FLENSBURG.

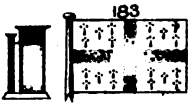


LONDON & EDINBURGH SHP Co
(T. MTKEN) LEITH.



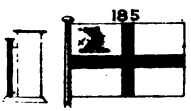
D. J. JENKINS & Co
LONDON.

RAGGIO & Co
GENOA.



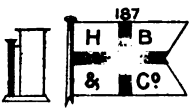
C. H. NORWOOD & Co
LONDON.

"LA VELOCE" NAV:
ITALIANA A VAPORE,
GENOA.



JAMES WARE.
CARDIFF.

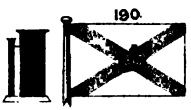
WATERFORD S.S. Co Ld
WATERFORD.



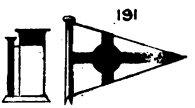
H. BLAIK & Co
LEITH.

RUBATTINO & Co
GENOA.

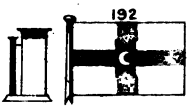
MACVICAR, MARSCHALL & Co
LIVERPOOL.



ROYAL MAIL S. PACKET Co
LONDON.



W. & C.L. RINGROSE
HULL.

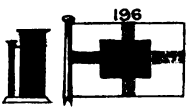


A. STEPHEN & SONS,
DUNDEE.

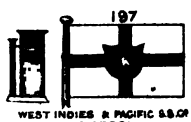
ALLAN C. GOW & Co
GLASGOW.

GEORGE MARSHALL & SONS,
LONDON

F. GREEN & Co.
BLACKWALL LINE,
LONDON

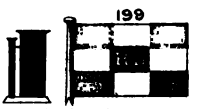


MONEY WIGRAM & SONS,
LONDON



WEST INDIES & PACIFIC S.S. Co
LIVERPOOL

E. J. HOUGH & Co
LONDON.



ROTTERDAMSCHE LLOYD.
ROTTERDAM.

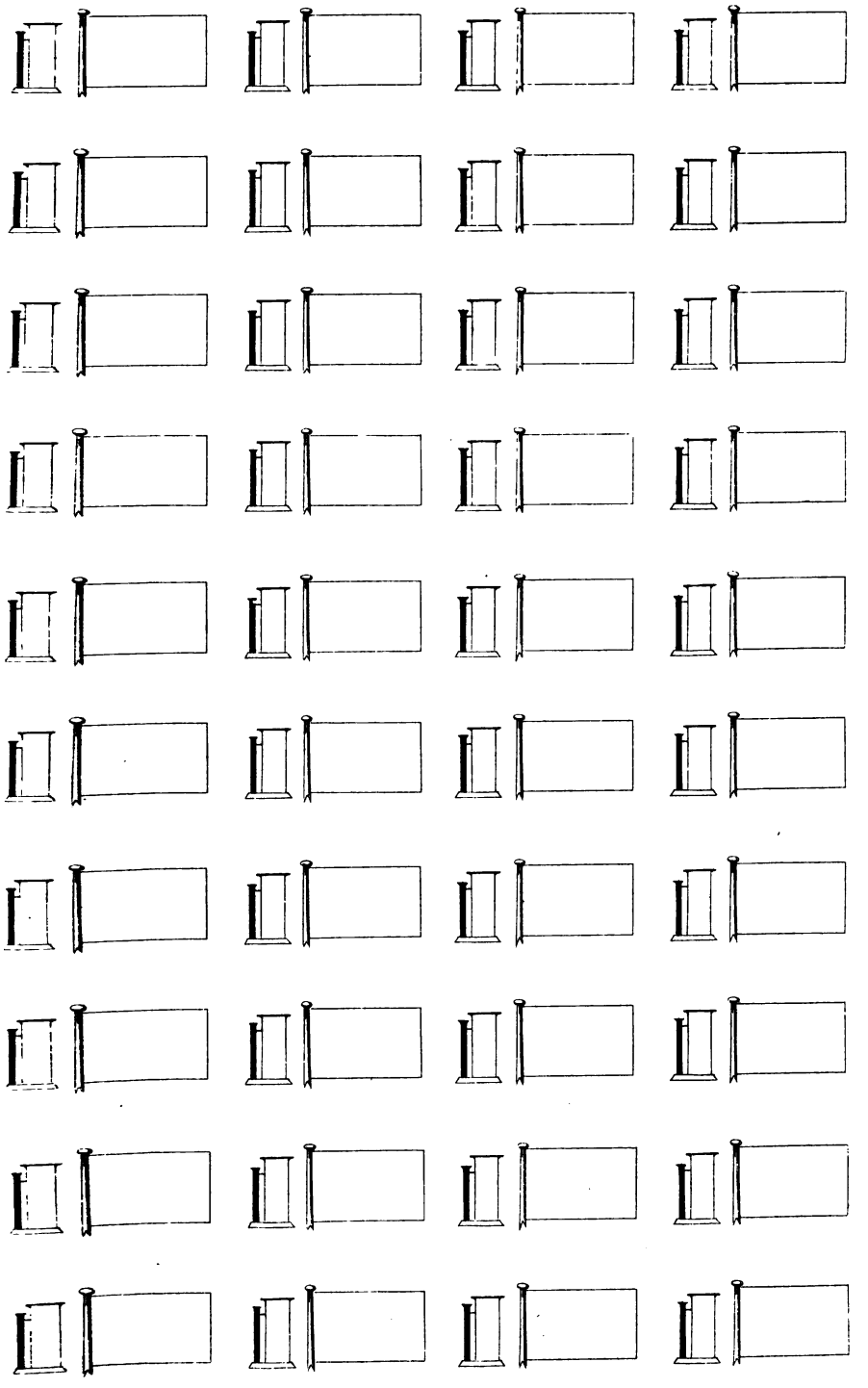
STO

ROTTERDAM.

Digitized by Google

Digitized by Google

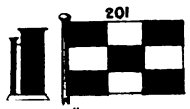
# STEAM VESSELS.



Digitized by Google

Digitized by Google

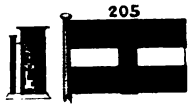
# STEAM VESSELS.

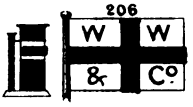

201
RUYS & SONS, ROTTERDAM.

202
CITY OF DUBLIN S P Cº DUBLIN.

203
BEDOUIN STEAM NAV. Cº LIVERPOOL

204
FENWICK & Cº LONDON


205
QUEBEC S. S. Cº QUEBEC.

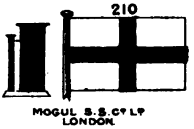


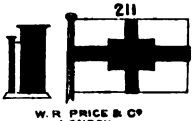
206
W. WHEATLEY & Cº LIVERPOOL.

207
ORIENT STMᵐ NAV: Cº LONDON.

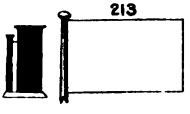
208
PACIFIC STEAM NAV: Cº LIVERPOOL.

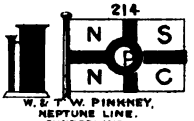
209
PLATE S.S.Cº, Lᵗᵈ LONDON.


210
MOGUL S.S.Cº Lᵗᵈ LONDON.

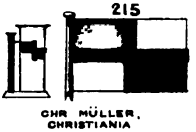

211
W. R. PRICE & Cº LONDON.

212
JOHN HALL, JUN. & Cº LONDON.


213



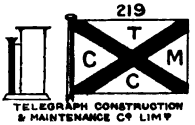
214
W. & T. W. PINKNEY, NEPTUNE LINE, SUNDERLAND.


215
CHR MÜLLER, CHRISTIANIA

216
DONALD & TAYLOR, GLASGOW.

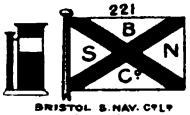
217
ORIENTAL S. S. Cº Lᵗᵈ LONDON.

218
BOOTH S. S. Cº LIVERPOOL.

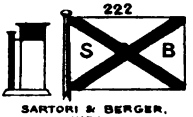


219
TELEGRAPH CONSTRUCTION & MAINTENANCE Cº LIMᵗᵈ LONDON.

220
NETHERLANDS INDIA S. NAV. Cº BATAVIA.



221
BRISTOL S. NAV. Cºᵗᵈ BRISTOL.



222
SARTORI & BERGER, KIEL.

223
R. & D. CAIRNS. LEITH.

224
STOOMVART MAATSCHAPPY "ZEELAND" FLUSHING.

225
OCEAN S.S.Cº SAVANNAH LINE, NEW YORK.

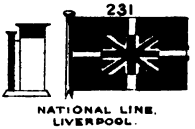
226
STOOM: MAATS: NEDERLAND, AMSTERDAM.

227
APCAR & Cº CALCUTTA.

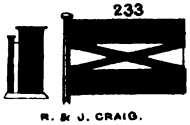
228
W. JOHNSTON & Cº LIVERPOOL.

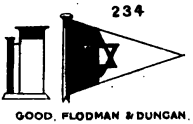
229
Mᶜ GREGOR, GOW & Cº LONDON.

230
R.P. HOUSTON & Cº LIVERPOOL.

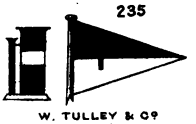

231
NATIONAL LINE, LIVERPOOL.

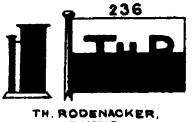
232
UNION S.S. Cº OF N. Z. DUNEDIN.


233
R. & J. CRAIG. GLASGOW.

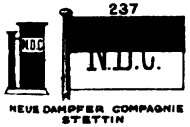


234
GOOD, FLODMAN & DUNCAN. HULL.

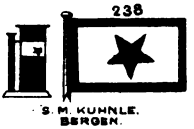

235
W. TULLEY & Cº HULL.



236
TH. RODENACKER, DANZIG.



237
NEUE DAMPFER COMPAGNIE STETTIN


238
S. M. KUHNLE. BERGEN.

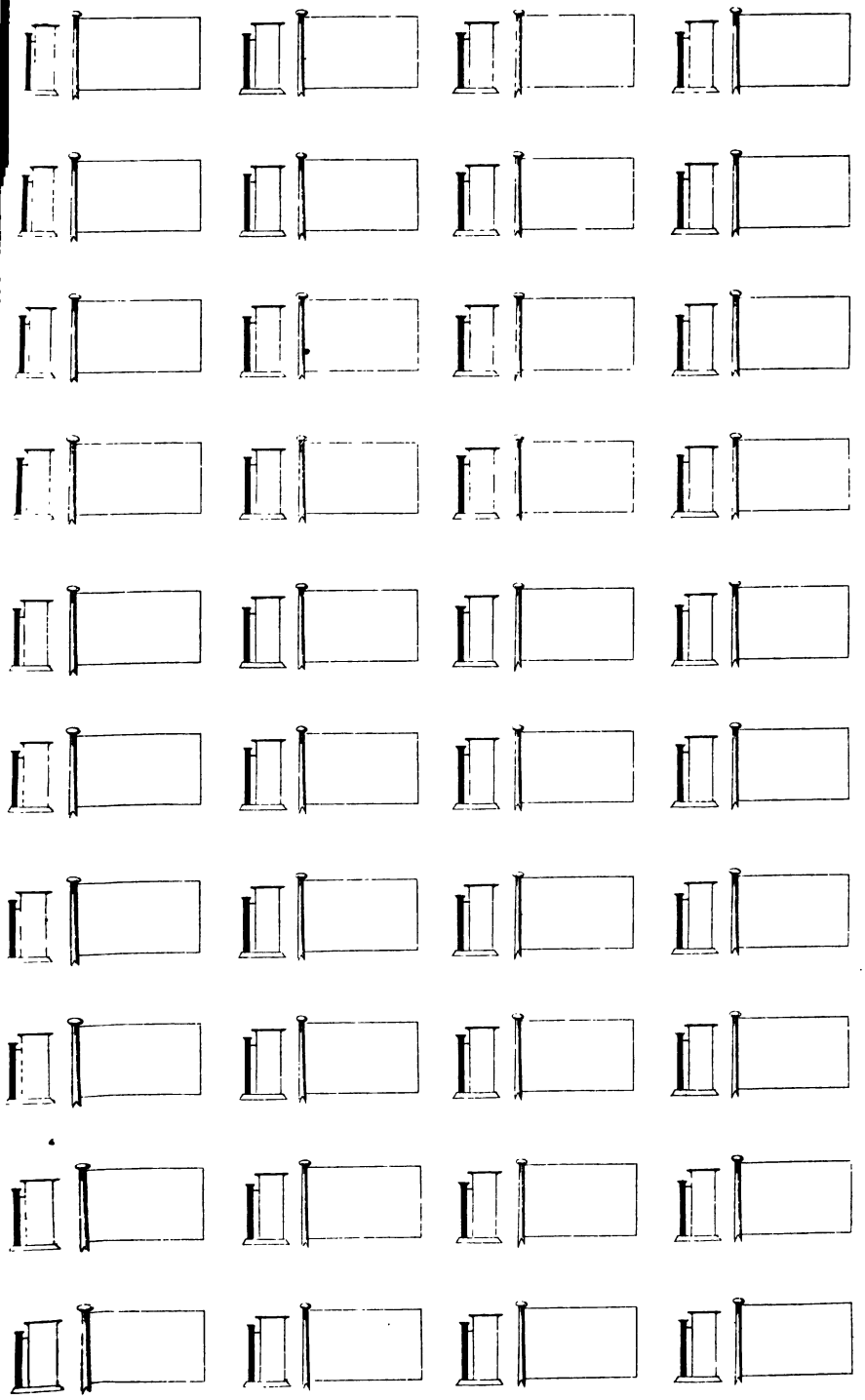
239
MASSEY & SAWYER. HULL.

240
GILDEMEISTER & RIES. BREMEN.

Digitized by Google

Digitized by Google

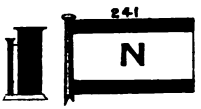
# STEAM VESSELS.



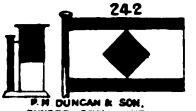
Digitized by Google

Digitized by Google

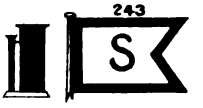
# STEAM VESSELS.



G. NELSON & SONS.
LIVERPOOL & WHITEHAVEN.

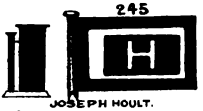


F. H. DUNCAN & SON.
DUNDEE S.S.M. LINE.
DUNDEE.



W. SWANSTON & SONS.
NEWCASTLE

HINE BROS.
MARYPORT

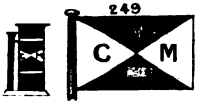


JOSEPH HOULT.
"HOULT LINE" LIVERPOOL.

W. H. ROSS & Co
LIVERPOOL.

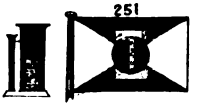
CHINA NAV: COMPY
J. SWIRE & SONS.
LONDON.

GLOVER BROS.
LONDON



CHAPMAN & MILLER.
NEWCASTLE

HAMBURG SUD-AMERIKANISCHE
DAMPFS. GESELLSCHAFT.
HAMBURG.



HALL BROS
NEWCASTLE.

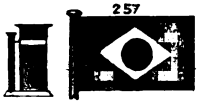
DEUTSCHE DAMPFS: GES:
KOSMOS.
HAMBURG.

HUNTING & PATTISON,
NEWCASTLE.

GEORGE OTTO.
N. SHIELDS.

W. J. TILLETT & Co
CARDIFF.

MARK WHITWILL & SON.
GREAT WESTERN S.S Co LIM.
BRISTOL.

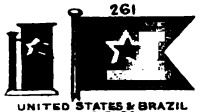


DOMINION LINE.
LIVERPOOL

FLINN, MAIN & MONTGOMERY,
LIVERPOOL.

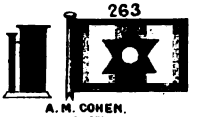
PERSIAN GULF S.S. Co Lp
LONDON.

SONDENFJELDS-NORSKE.
DAMPSKIBSSELSKAB.
CHRISTIANIA.



UNITED STATES & BRAZIL
MAIL S.S. Co
NEW YORK.

Cie MARITIME DU PACIFIQUE,
HAVRE.



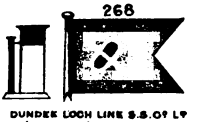
A. M. COHEN,
NEWCASTLE.

J. T. SALVESEN & Co,
GRANGEMOUTH.

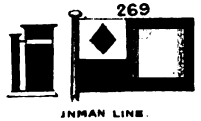
PYMAN BROS,
LONDON.

G. PYMAN & Co
W. HARTLEPOOL.

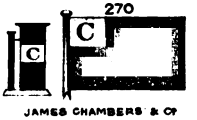
PYMAN BELL & Co
NEWCASTLE.



DUNDEE LOCH LINE S.S. Co Lp
(A. LEITCH) DUNDEE.



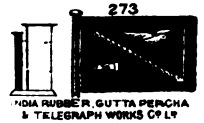
INMAN LINE.
LIVERPOOL.



JAMES CHAMBERS & Co
LIVERPOOL.

MESSAGERIES MARITIMES,
MARSEILLES.

N. YORK HAVANNA &
MEXICAN MAIL S.S. Co
NEW YORK.



INDIA RUBBER, GUTTA PERCHA
& TELEGRAPH WORKS Co Lp
LONDON.

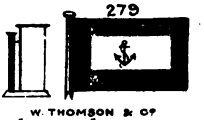
THE HON COR: OF TRINITY HOUSE,
LONDON.

NAV: GEN: ITALIANA,
ROME & GENOA.

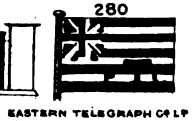
DAVID & MATHEWS,
SWANSEA.

MERSEY S.S. Co
LIVERPOOL.

W. & E. S. LAMPLOUGH,
LONDON.



W. THOMSON & Co
"SEN LINE" LEITH.

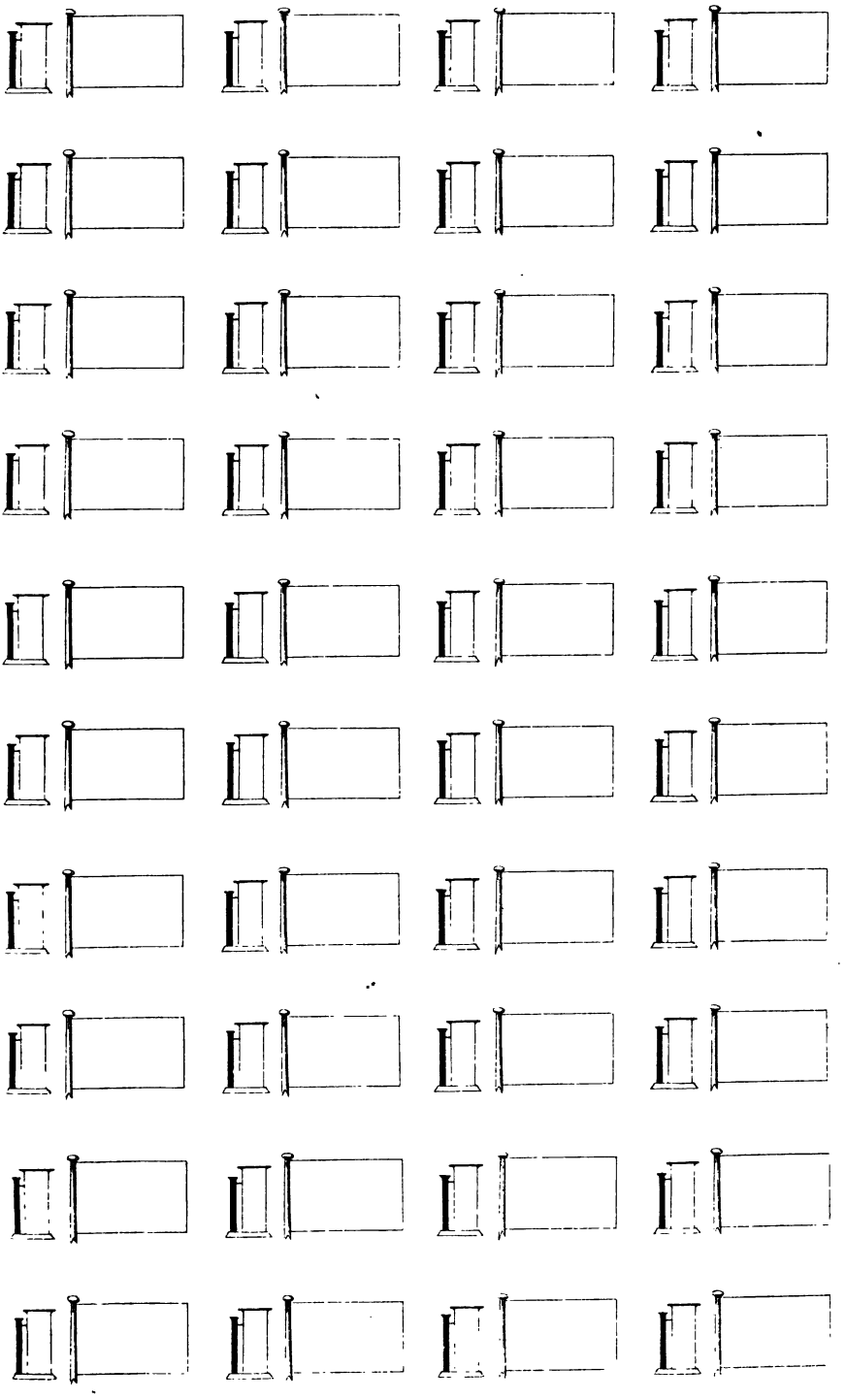


EASTERN TELEGRAPH Co Lp
LONDON.

Digitized by Google

Digitized by Google

# STEAM VESSELS.




COPYRIGHT

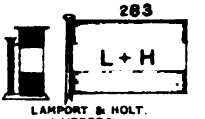
Digitized by Google

Digitized by Google

# STEAM VESSELS.

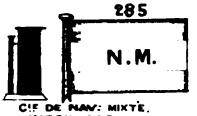
W. O. TAYLOR & Co
DUNDEE S.O. Co LIMD
DUNDEE.

LIVERPOOL, BRAZIL & RIVER PLATE S.NAV. Co
LIVERPOOL.

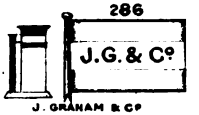



LAMPORT & HOLT.
LIVERPOOL

PALGRAVE, MURPHY & Co
DUBLIN

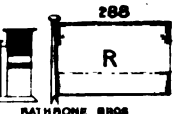



Cie DE NAV: MIXTE.
MARSEILLES

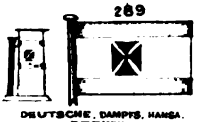



J. GRAHAM & Co
NEWCASTLE.

WILLIAMSON, MILLIGAN & Co
"WAVERLEY LINE"
LIVERPOOL

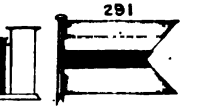



RATHBONE BROS
"STAR LINE"
LIVERPOOL.

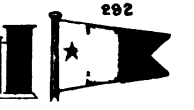



DEUTSCHE, DAMPFS. HANSA.
BREMEN

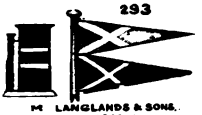
J. HOPPER.
SUNDERLAND.



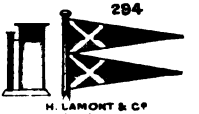

PACIFIC MAIL S. S. Co
LONDON.



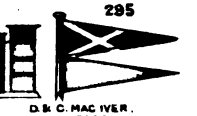

C H MALLORY & Co
NEW YORK.




M LANGLANDS & SONS.
GLASGOW

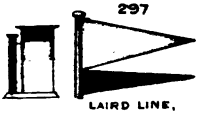



H. LAMONT & Co
GLASGOW.

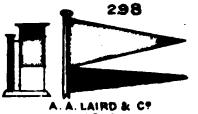



D. & C. MAC IVER.
LIVERPOOL.

GLASGOW & HIGHLAND S.SS.
D MAC BRAYNE.
GLASGOW.

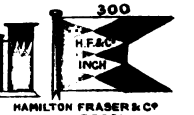



LAIRD LINE,
GLASGOW.




A. A. LAIRD & Co
GLASGOW.

BARROW S. NAV. Co
J. LITTLE & Co
BARROW & GLASGOW.




HAMILTON FRASER & Co
LIVERPOOL.

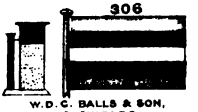
Cie MARSEILLAISE DE NAV. A VAPEUR
(FRAISSINET & Cie)
MARSEILLES

NEWTON BROS & Co
LONDON

G. GIBSON & Co
LEITH.

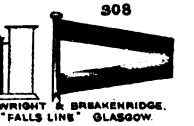
JAMES RANKINE & SON,
GLASGOW.

C BARRIE.
DUNDEE.

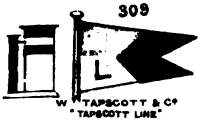



W.D.C. BALLS & SON,
N.SHIELDS.

STATE S.S.& Co
GLASGOW.



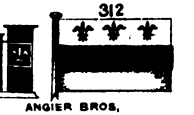

WRIGHT & BREAKENRIDGE.
"FALLS LINE" GLASGOW.




W. TAPSCOTT & Co
"TAPSCOTT LINE"
LIVERPOOL.

HAMBURG-PACIFIC DAMPFS.
(A. KIRSTEN) HAMBURG.

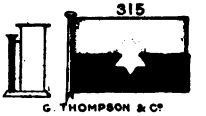
RUSSIAN S.NAV. & TRADING Co
St PETERSBURG & ODESSA.




ANGIER BROS,
LONDON.

W H. TINDALL & Co
LONDON

EYRIE, EVANS & Co
LIVERPOOL.




G. THOMPSON & Co
LONDON.

JENS MEINICH & Co
CHRISTIANIA.

ITALIAN LLOYD.
GENOA

Cie COMMERCIALE DE TRANS.
A VAPEUR FRANCAIS.
HAVRE

GALBRAITH, PEMBROKE & Co
LONDON.

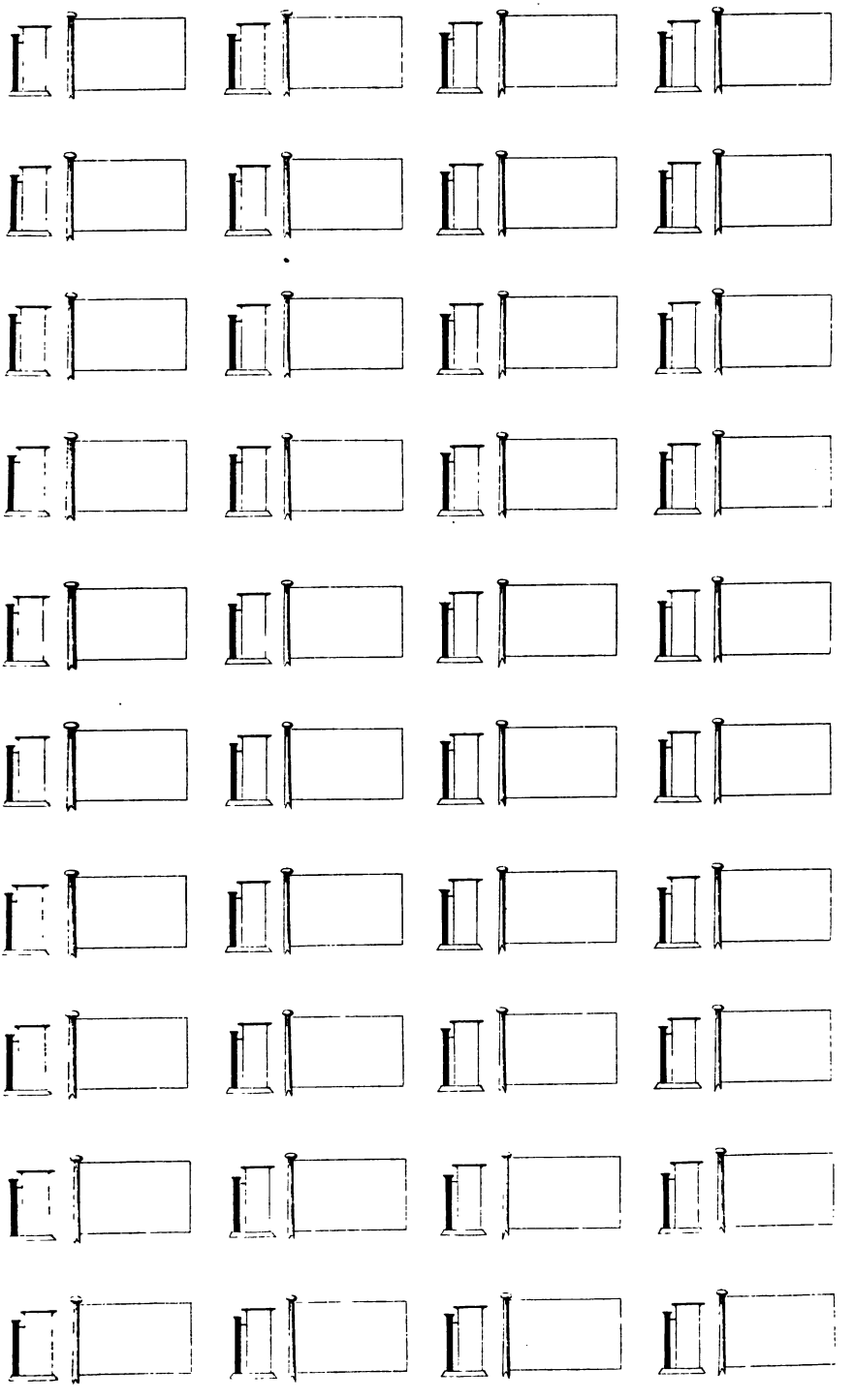
OCCIDENTAL & ORIENTAL
LINE



Digitized by Google

Digitized by Google

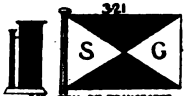
# STEAM VESSELS.



Digitized by Google

Digitized by Google

# STEAM VESSELS.

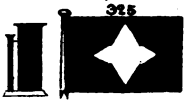



SOC: GÉN: DE TRANSPORTS MARITIMES À VAPEUR. MARSEILLES.

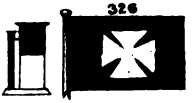
SOUTHAMPTON I. of WIGHT & S. of E. ROYAL MAIL S. P. COMPY SOUTHAMPTON.

HUGH ROBERTS & SON. NEWCASTLE.

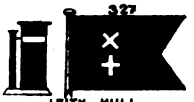
LDN. CHATHAM & DOVER RY. LONDON.




J. & J. WAIT. NEWCASTLE.



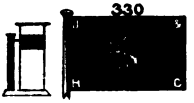

GOOLE S. S. Co GOOLE.




LEITH, HULL & HARTLEPOOL S. S. Co LEITH.

P. H. DIXON & HARRISON. GLASGOW.

N. PAQUET & Cie MARSEILLES.




J. HALL & Co NEWCASTLE.

W. H. DIXON. LIVERPOOL.

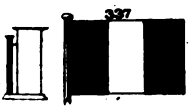
G. H. FLETCHER & Co COMPANIA LA FLECHA. LIVERPOOL.

M. THOMPSON. CARDIFF.

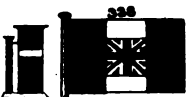
G. H. WILLS & Co CARDIFF.

HARLOFF & BOE. BERGEN.

ALLAN LINE. GLASGOW.



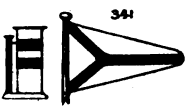

ABERDEEN S. NAV. Co ABERDEEN.




IRRAWADDY FLOTILLA Co P. HENDERSON & Co. GLASGOW.

BRIT. & SUMMER S. N. Co LIM. P. HENDERSON & Co GLASGOW.

J. & R. HUTCHISON. FRENCH & PORTUGUESE S. R. Co GLASGOW.




HARRIS & DIXON. LONDON.

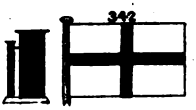



PLATE S. S. Co LONDON.

STOOMVART MAATSCHAPPIJ NEDERLAND. AMSTERDAM.

W. P. CLYDE & Co NEW YORK.

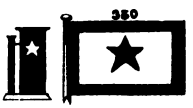
A. & A. Y. MACKAY. GRANGEMOUTH.

OLD DOMINION S. S. Co NEW YORK.

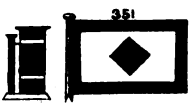
L. FLORNOY & FILS. NANTES.

J. H. MURRELL & Co W. HARTLEPOOL.

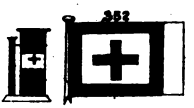
J. WOOD & Co W. HARTLEPOOL.




R. H. PENNEY. BRIGHTON.

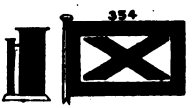



J. M. LENNARD & SON, MIDDLESBORO'



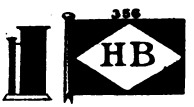

ROWLAND & MARWOOD S. B. Co, L^D ROWLAND & MARWOOD _ J. ROWLAND. WHITBY.

LUMSDEN, BYERS & Co SUNDERLAND.



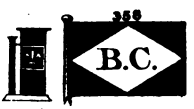

UNION S. S. Co SOUTHAMPTON.

LEACH & Co LONDON.

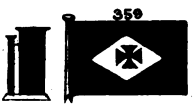



H. BAUER. ROSTOCK.

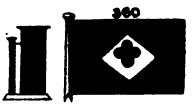
J. ROCA & Co BARCELONA.




BURDICK & COOK. LONDON.




PACIFIC COAST S. S. Co SAN FRANCISCO.

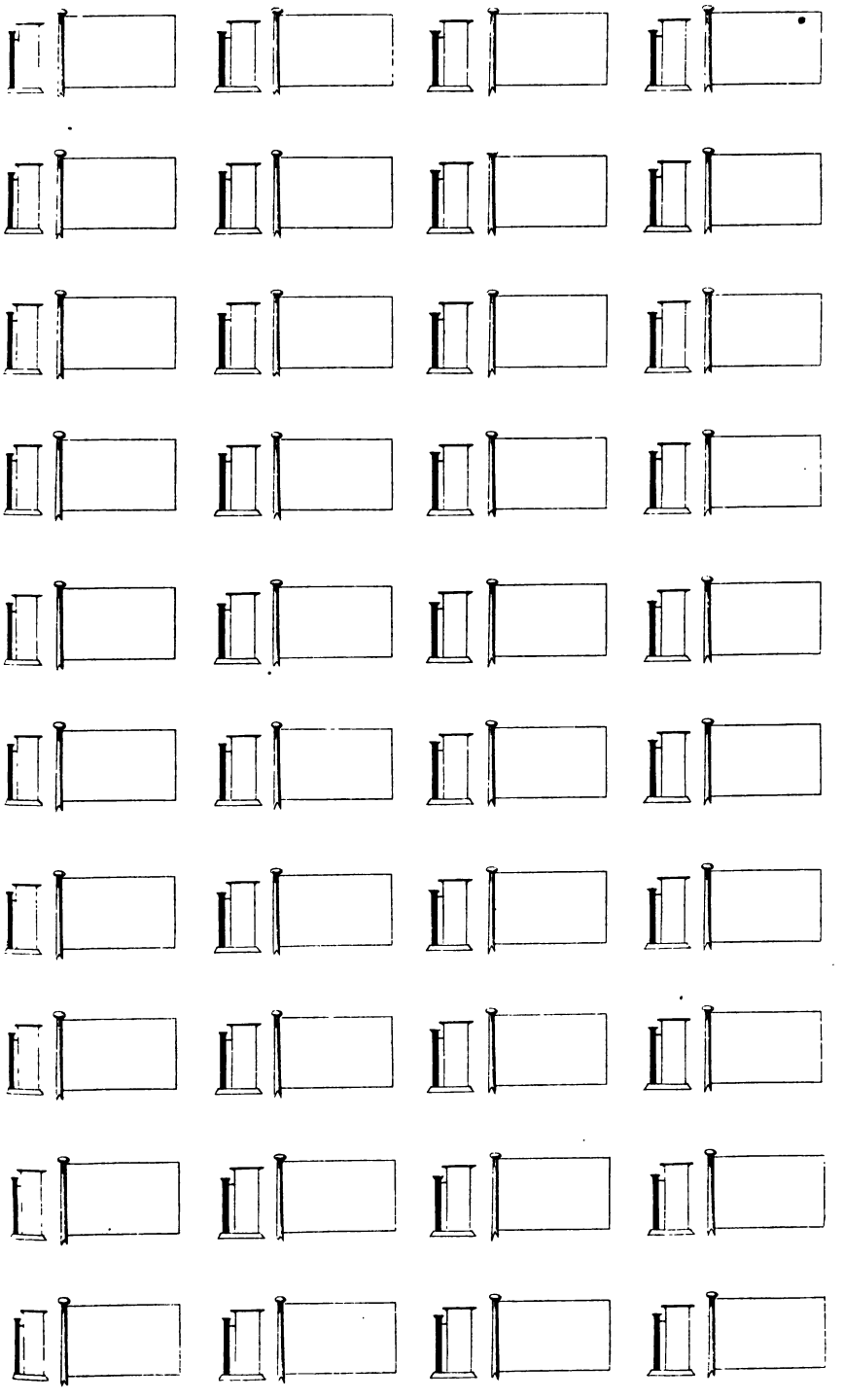



FARRAR, GROVES & Co LONDON.

Digitized by Google

Digitized by Google

# STEAM VESSELS.

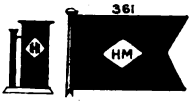


GRIFFIN & Co COPYRIGHT PORTSMO

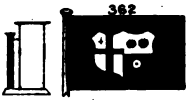
Digitized by Google

Digitized by Google

# STEAM VESSELS.

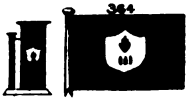


HARRISON, MOORE & MOORE, CARDIFF.



LONDON & S.W. RAILWAY Co LONDON.

DELMAS FRÈRES LA ROCHELLE.



ULSTER S.S. Co BELFAST.

BURRELL & SON, GLASGOW.

W. GRAY & Co W. HARTLEPOOL.

J. T. RENNIE & SON, ABERDEEN.

YORKSHIRE COAL & S.S. Co LT GOOLE.

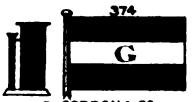
JOHN CORY & SONS, CARDIFF.

CANADA SHIPPING Co MONTREAL.

HAMBURGH AMERIKAN. PACKETFAHRT. ACT. GESEL. HAMBURGH.

KON. NEDERLANDSCHE STOOMS. MAATS AMSTERDAM.

GUION LINE LIVERPOOL.



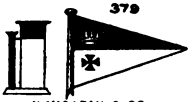
R. GORDON & Co LONDON.

Wm ROBERTSON, GLASGOW.

STRONG, REID & PAGE, LIVERPOOL.

METROPOLITAN S.S. Co NEW YORK.

R. NICHOLSON & SONS, LIVERPOOL.



N. MAC LEAN & Co GLASGOW.

JACKSON, METCALF & Co "WATER LINE," LIVERPOOL.

W. LAMPLOUGH & Co EAST & WEST S.S. Co LT LONDON.

W. FRANCE & Co LONDON & GOOLE.

ATLAS LINE LEECH, HARRISON & FORWOOD, LIVERPOOL.

DANNEBROG S.S. Co (C.K. HANSEN) COPENHAGEN.

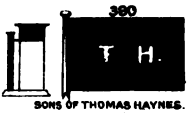
GREAT EASTERN RAILY Co LONDON.

J. WARRACK & Co LEITH.

DONALD CURRIE & Co LONDON.

STEPHENSON, CLARK & Co LONDON.

CO-OPERATIVE WHOLESALE SOCIETY, LIMD MANCHESTER.



SONS OF THOMAS HAYNES. CADIZ.

H. HOGARTH. GLASGOW.

TAYLOR & SANDERSON, SUNDERLAND

TURNBULL, MARTIN & Co SHIRE LINE LONDON.

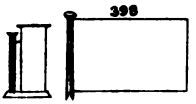
ANDERSON, HORAN & Co SUNDERLAND.

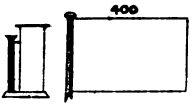
H. S. EDWARDS, SHIELDS

T. TURNBULL & SON, WHITBY.

THULE S.S. Co LT (O. MELIN) GOTHENBURG.

STOCKHOLMS ANGBARTYGS. REDERIBOLAG. STOCKHOLM.

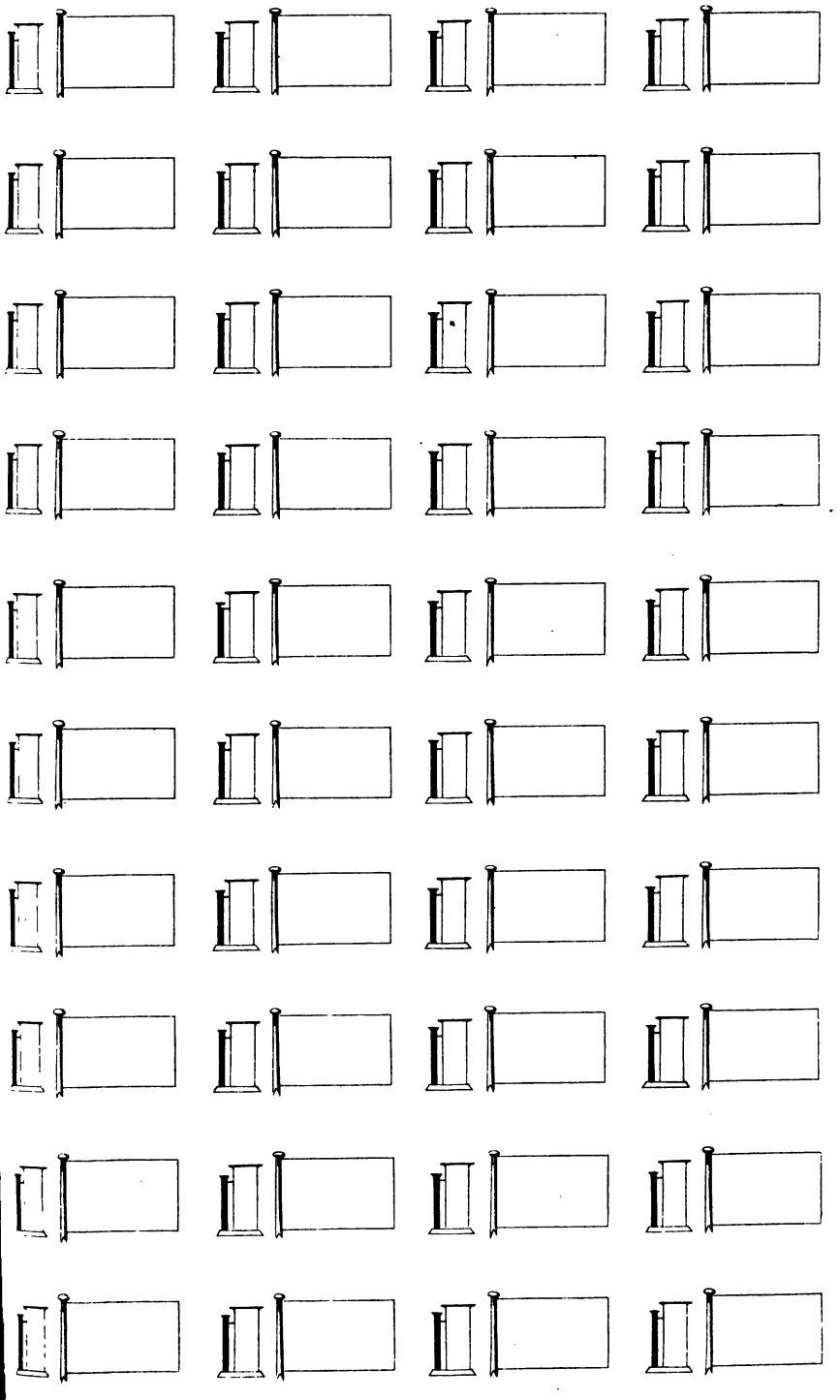



Digitized by Google

Digitized by Google

# STEAM VESSELS.



GRIFFIN & Co COPYRIGHT PORTSM

Digitized by Google

Digitized by Google

# STEAM VESSELS.

401
GLADSTONE & CORNFORTH, W. HARTLEPOOL.

402
CHINA SHIPPERS MUTUAL S. NAV. Co. Lt. LONDON.

403
F. HERSKIND, W. HARTLEPOOL.

404
COLVILS, LOWDEN & Co. GLASGOW.

405
T. W. RICHARDSON, "SHAN LINE" LONDON.

406
R. H. WESENCRAFT & Co. NEWCASTLE.

407
P. & O. STEAM NAV. Co. LONDON

408
G. HORSLEY, W. HARTLEPOOL.

409
CLYDE SHIPPING Co. G. J. KIDSTON, GLASGOW.

410
W. ROSS & Co. "ROSS LINE" LONDON.

411
BRITISH & IRISH STEAM PKT. Co. Lt. DUBLIN.

412
DROGHEDA S. PKT. Co. LIM. DROGHEDA.

413
ADRIA-HUNGARIAN SEA NAV. Co. FIUME

414
J. J. CARROLL, DUBLIN.

415
WOERMANN LINIE HAMBURG.

416
RICKMERS LINE, BREMERHAVEN.

417
CHP
CIE HAVRAISE PENINSULAIRE DE NAV. À VAPEUR, HAVRE.

418
EASTERN & AUSTRALIAN MAIL S. Co. LIM. LONDON.

419
N.A.S.M.
NETHERLANDS-AMER S. NAV. Co. ROTTERDAM.

420

421
B
JOHN BACON, LIVERPOOL.

422
OSBORN & WALLIS, CARDIFF.

423
W
WATTS, WARD & Co. LONDON.

424
P.G.
RANKIN, GILMOUR, STRANG & Co. LONDON.

425
J.B.&Co.
JACKSON, BEAUMONT & Co. HULL.

426
W
JAMES WESTOLL, SUNDERLAND.

427
TYNE & BLYTH S.S. O. Co. Lt. R. BELL & Co. NEWCASTLE.

428
J. & C. HARRISON, LONDON.

429
W. LUND, "LUNDS LINE" LONDON.

430
NORDDEUTSCHER LLOYD, BREMEN.

431
SOC: NAVALE DE L'OUEST, HAVRE.

432
H. COLLINGS & Co. LONDON.

433
J. E. BOWSER, ORMSTON & Co. NEWCASTLE.

434
C. HILL & SONS, BRISTOL.

435
NELSON DONKIN & Co. NEWCASTLE.

436
DAMPSKIBSSELSKABET "THINGVALLA" COPENHAGEN

437
CARLISLE & Co. LONDON.

438
ELLIOTT, LOWREY & DUNFORD, NEWASTLE.

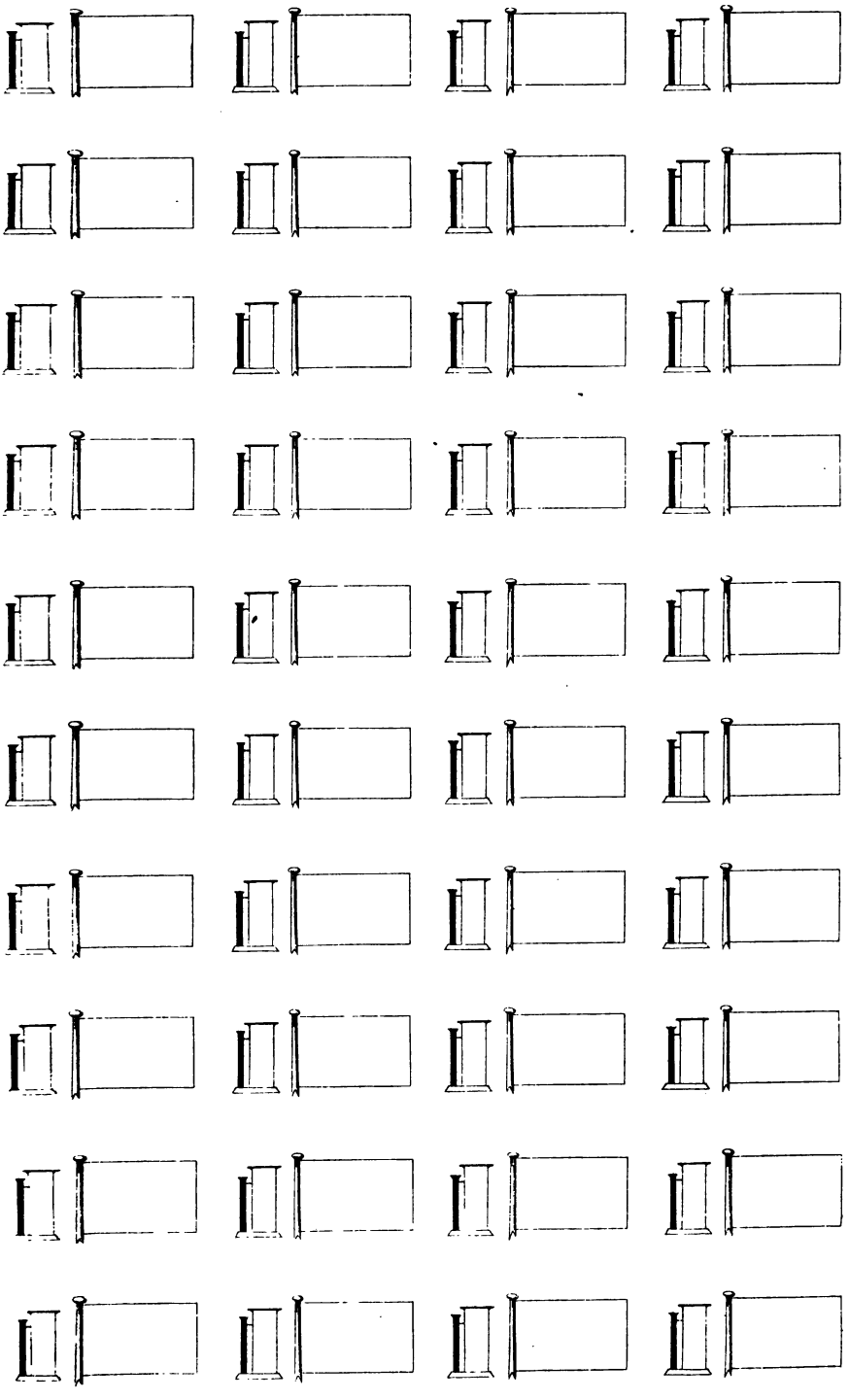
439
SVENSKA LLOYD, GOTHENBURG.

440
MILBURN BROS NEWCASTLE.

Digitized by Google

Digitized by Google

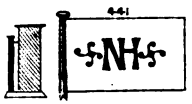
# STEAM VESSELS.



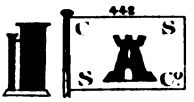
Digitized by Google

Digitized by Google

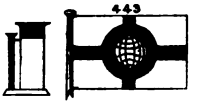
# STEAM VESSELS.




TWIN SCREW S.S. Co
W.H. NOTT & Co
LONDON.




CALEDONIA S.S. Co Lp
LIVERPOOL.




GLOBE S.S. Co
LONDON.

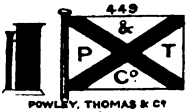
FORNYADS ANGFARTYGS
AKTIEBOLAGET GOTHA.
GOTHENBURG

Cie FRANCAISE DE NAV:
CYP. FABRE & Co
MARSEILLES.

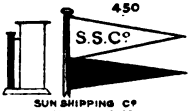
CARDIFF S.S. Co Lp
HOOPER, CAMPBELL & Co
CARDIFF.

R. & D. JONES.
LIVERPOOL.

T. & W. SMITH.
NEWCASTLE.

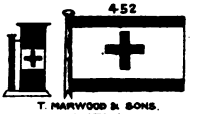



POWLEY, THOMAS & Co
LONDON.




SUN SHIPPING Co
R. ALEXANDER & Co
LIVERPOOL.

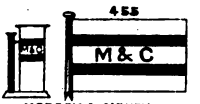
E. HANDCOCK & Co
CARDIFF.



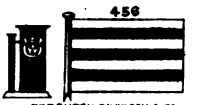

T. HARWOOD & SONS.
WHITBY.

BELL BROS. & McLELLAND.
GLASGOW.

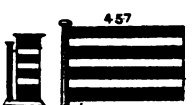
EARN LINE S.S. Co Lp
LONDON.



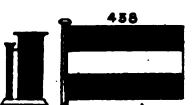

MORDEY & CARNEY.
NEWPORT.



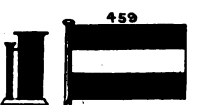

FERGUSON, DAVIDSON & Co
SCOTTISH ORIENTAL S.S. Co Lp
GLASGOW.




FISHER, RENWICK & Co
NEWCASTLE.

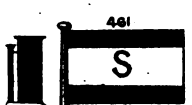



(GREGOR) TURNBULL & Co
GLASGOW.




N. of SCOTLAND & ORKNEY &
SHETLAND S. NAV: Co.
ABERDEEN.

ASIATIC STM. NAV: Co
LIVERPOOL.




LINEA DE VAPORES SERRA
BILBAO.

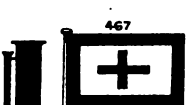
A. HOLLAND & Co
LONDON.

FINSKA ANGFARTYGS AKTIE-BOLAGET
HELSINGFORS.

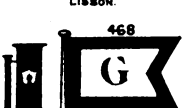
EMPREZA INSULANA DE
NAVEGAÇÃO À VAPOR
LISBON.

R. MACKIE & Co
LEITH.

SHARP & Co
NEWCASTLE.



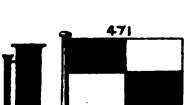

HARPER & Co
SOUTHAMPTON.



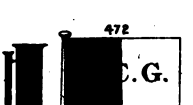

J. GARDINER & Co
GLASGOW.

MACLAY & McINTYRE
GLASGOW.

J. H. TANDONNET FRÈRES
BORDEAUX.



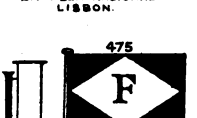

EMPREZA NACIONAL
LISBON.




RUD: CHRIST. GRIBEL
STETTIN.

SÖHME & WATTNE.
STAVANGER

HELLENIC S.N. Co
SYRA.




A. C. DE FREITAS & Co
HAMBURG.

OCEAN S.S. Co
ALFRED HOLT.
LIVERPOOL.

BROWN, ATKINSON & Co
HULL.

J. F. MARSHALL,
SUNDERLAND.

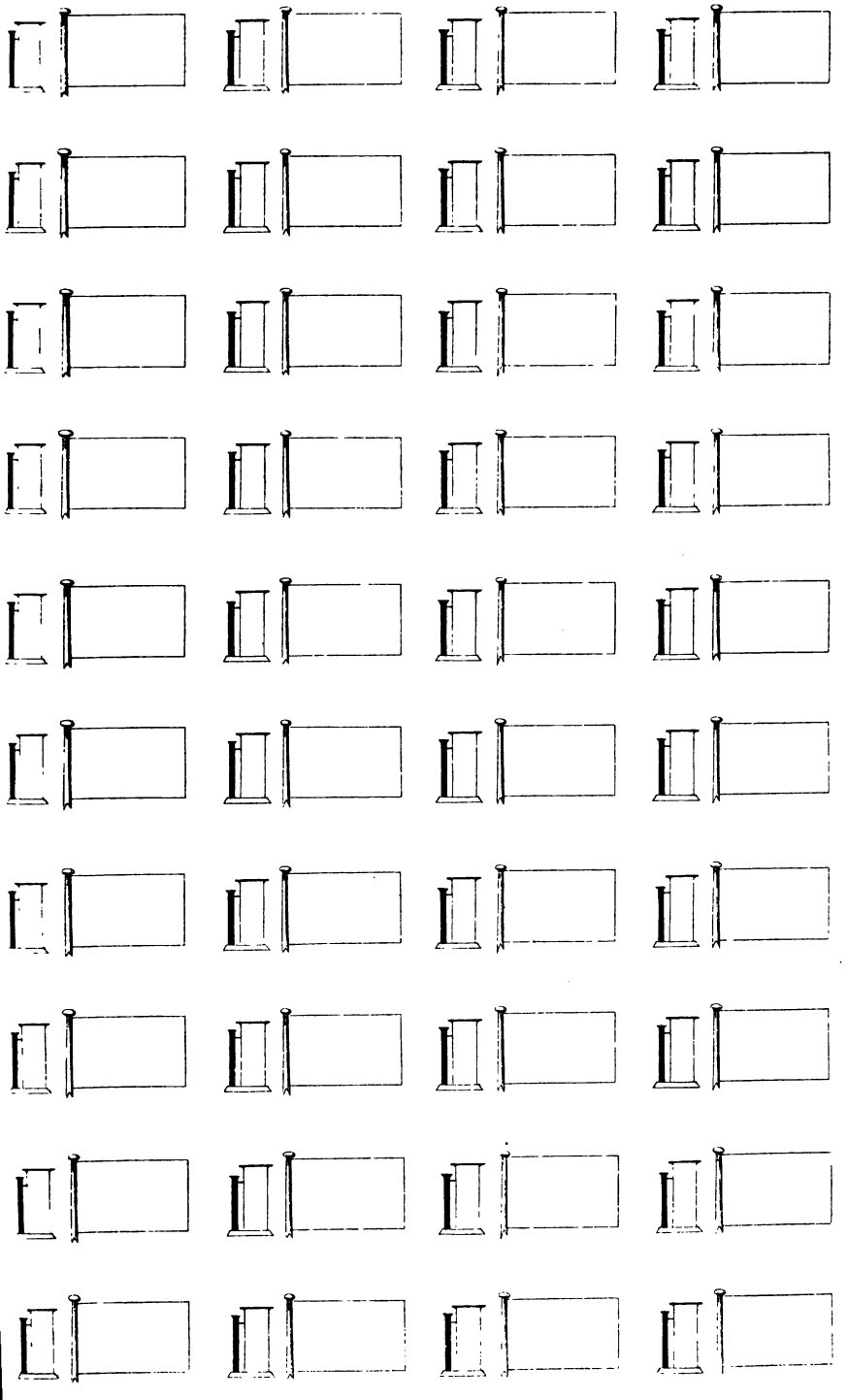
BRITISH & AFRICAN STEAM
NAV: Co
GLASGOW.

ELDER, DEMPSTER & Co
LONDON.

Digitized by Google

Digitized by Google

# STEAM VESSELS.



GRIFFIN & Co COPYRIGHT PORTSMO

Digitized by Google

Digitized by Google

# STEAM VESSELS.

481
R. A. RUDIE & SONS.
DUNDEE.

482
LANGE GEBRUDER.
KIEL.

483
INDO-CHINA S.N. Co
LONDON.

484
LDN. BRIGHTON & S.C. RY Co
LONDON.

485
VAGLIANO BROS.
LONDON.

486
MATTHEWS & LUFF.
LONDON.

487
G.R. SANDERSON & Co,
ANCHOR LINE,
HULL.

488
AMAZON S NAV: Co Lo
LONDON.

489
JAMES GRAY.
WHITBY.

490
T. SKINNER & Co
GLASGOW

491
R. M. SLOMAN & Co
HAMBURG.

492
TOWER LINE.
F. STUMORE & Co
LONDON.

493
H. JEBSEN.
APENRADE.

494
IRISH SHIPOWNERS Co Lo
"LORD LINE" BELFAST.

495
HOLDT & ISACHSEN.
STAVANGER.

496
CHRISTIE & Co
CARDIFF.

497
WORMS, JOSSE & Co
BORDEAUX.

498
COMPANIA TRASATLANTICA
CADIZ.

499
R. SHADFORTH & Co
SUNDERLAND.

500
JOHN O. SCOTT & Co
NEWCASTLE.

501
TEMPERLEYS, CARTER & DARKE.
LONDON.

502
FORENEDE DAMPSKIBS SELSKAB.
COPENHAGEN.

503
C. M. LOFTHOUSE & Co
HULL.

504
C. FURNESS
"FURNESS LINE"
W. HARTLEPOOL.

505
J. S. HILL.
CARDIFF.

506
J. LEDGER HILL.
SOUTHAMPTON.

507
J. TEMPERLEY & Co
NEWCASTLE.

508
HOGG & HENDERSON.
MIDDLESBORO'

509
YBARRA & Co
SEVILLE.

510
P.M.C. & Co
P. M. COURTOI & Co
CONSTANTINOPLE.

511
M.S. Co
MERCANTILE S.S. Co
LONDON.

512
P & Co
PAPAYANNI & Co
LIVERPOOL.

513
P.W. & Co
PYMAN, WATSON & Co
CARDIFF.

514
W.S. & Co
W. SLOAN & Co
GLASGOW

515
S.E.R
S. EASTERN RAILWAY Co
LONDON.

516
S
T.S. & S.
T. STEPHENS & SONS.
LONDON.

517
H.S. & Co
H. STRACHAN & Co
NEWCASTLE.

518
T.C. & Co
TAYLOR, CAMERON & Co
LIVERPOOL.

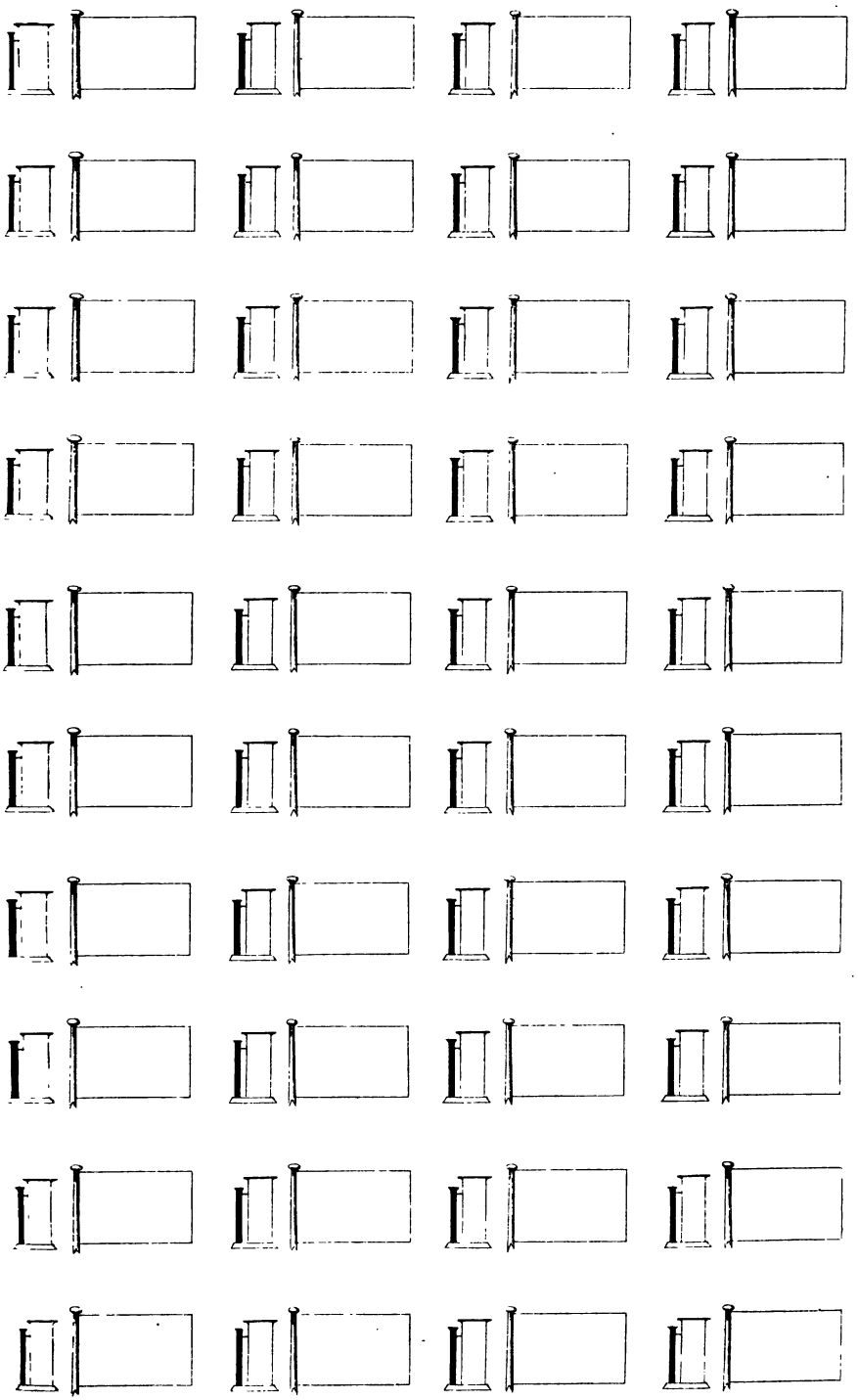
519
T.B. & Co
TURNER, BRIGHTMAN & Co
LONDON.

520
T & B
TYZACK & BRANFOOT,
SUNDERLAND.

Digitized by Google

Digitized by Google

# STEAM VESSELS.



Digitized by Google

Digitized by Google

# STEAM VESSELS.

521 — W&Co
WESTERGAARD & Co
CHRISTIANIA

521 — UNION
DUGGIRGESELLSCHAFT UNION
BREMEN.

523
WILLIAMS, TORREY & FIELD.
ATLANTIC TRANSPORT LINE.
LONDON.

524
DAMPF: GES: KJOBENHAVN OSTERSOEN
COPENHAGEN.

525 — M
Mc INTYRE BROS.
NEWCASTLE.

526
J. M. WOOD,
LIVERPOOL.

527
G. & J. BURNS.
GLASGOW.

528
CAPPER, ALEXANDER & Co
LONDON.

529
AUSTRO HUNGARIAN
LLOYD S.N. Co
TRIESTE.

530
WEST HARTLEPOOL S.NAV: Co
WEST HARTLEPOOL.

531
MARQUIS OF LONDONDERRY.
LONDONDERRY.

532
DAMPFS: GES: NEPTUN.
BREMEN.

533
EASTERN S.S. Co
"DUCAL LINE"
LONDON.

534 — W&L
WESTCOTT & LAURANCE,
LONDON.

535
LIVERPOOL TRADERS,
R. GILCHRIST & Co
LIVERPOOL.

536
DUBLIN & GLASGOW S.P. Co
DUBLIN.

537
ROBINSON BROS.
WHITBY.

538
SCRUTTON SONS & Co
LONDON.

539 — SB
SCOTT BROS.
NEWCASTLE.

540 — T BROS
TURNBULL BROS.
CARDIFF

541
HONDURAS & CENTRAL AMERICAN
S.S. Co Ld
GLASGOW.

542
THE EARL OF DURHAM,
H. T. MORTON,
SUNDERLAND.

543 — FN
FRIED KRUPP.
ESSEN.

544
R. HARROWING.
WHITBY.

545 — THHC
E. HARRIS & Co
MIDDLESBORO'

546 — OT
OTTO TRECHMANN,
W. HARTLEPOOL.

547 — R
DEUTSCH-AMERIKANISCHE
PETROLEUM GESELLSCHAFT
BREMEN.

S
SOCIÉTÉ CO
ANTWE

549

550

551

552

553

554

555

556

557

558

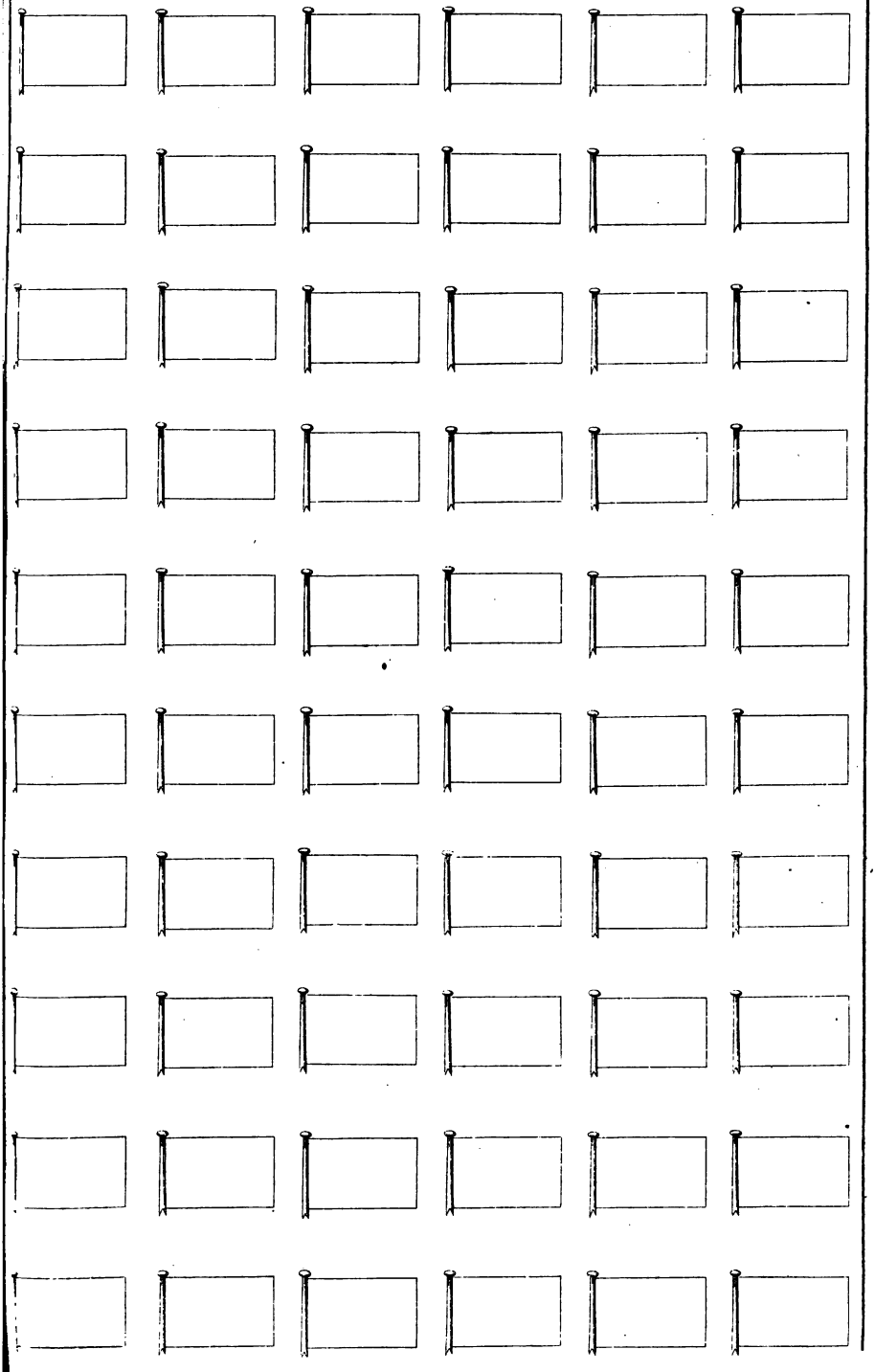
559

560

Digitized by Google

Digitized by Google

# SAILING VESSELS.



Digitized by Google

Digitized by Google

# SAILING VESSELS.

561 — S — STUART BROS. ISLANDS LINE. GLASGOW

562 — W — W.J. WOODSIDE & Co BELFAST.

563 — F.L. — F. LAEISZ, HAMBURG.

564 — W. THOMAS & SON, LIVERPOOL.

565 — E. BATES & SON, LIVERPOOL

566 — W.A. FRITZE & Co BREMEN.

567 — SHALLCROSS & HIGHAM, LIVERPOOL.

568 — BURGESS & Co SWANSEA.

569 — E — R. & J. EVANS & Co LIVERPOOL.

570 — H — J. HEAP & SONS, LIVERPOOL.

571 — R. & W. KING, BRISTOL

572 — G.B. — GILROY, SONS & Co DUNDEE.

573 — R C — ROGERS & Co MARSON LINE GLASGOW.

574 — H. ELLIS & SON LONDON.

575 — T — W. THOMAS & Co LIVERPOOL.

576 — J — W.C. JARVIS & SONS, LIVERPOOL.

577 — C L & C — COTTESWORTH, LYNNE & Co LIVERPOOL.

578 — N Z S Co — NEW ZEALAND SHIPPING COMPY LONDON.

579 — C.T. BOWRING & Co LIVERPOOL.

580 — & J C Co — J. CORNFOOT & Co ROCK LINE, GLASGOW.

581 — T. HARRISON & Co LIVERPOOL.

582 — A. NICOL & Co ABERDEEN.

583 — J.P. CORRY & Co BELFAST.

584 — F & S — FISHER & SPROTT, LONDON.

585 — T. G. — THOMSON & GRAY, GLASGOW.

586 — T.P. R. & Co — T.P. RICHARDS & Co SWANSEA.

587 — BERD. BREDA, CHRISTIANIA.

588 — H. FERNIE & SONS, LIVERPOOL.

589 — G.N. GARDINER & Co LIVERPOOL.

590 — R. DENNISTON & Co ISLAND LINE. GLASGOW.

591 — SIR J. POOLE & Co LIVERPOOL.

592 — G.S.Co — AITKEN, LILBURN & Co GLASGOW SHIPPING Co GLASGOW.

593 — W.T. DIXON & SONS, LIVERPOOL

594 — WATSON BROS. GLASGOW

595 — G.W. KELLOCK & Co LIVERPOOL.

596 — J.D. CLINK, GREENOCK.

597 — MACKAY & Co YACHT LINE, GLASGOW.

598 — S D — SCHOENBERG & DONANSKY, DANTZIG

599 — C.M. VAN VESSEM, ROTTERDAM.

600 — STAVELEY, TAYLOR & Co LIVERPOOL.

601 — CRAIG, SCOTT & Co GREENOCK.

602 — ISMAY, IMRIE & Co LIVERPOOL.

603 — D — T. DIXON & SONS, BELFAST.

604 — J. WILSON, GLASGOW.

605 — BK & Co — BULLARD, KING & Co LONDON.

606 — LOWDEN, EDGAR & Co LIVERPOOL.

607 — W. MILVAIN & SONS, GATESHEAD.

608 — J. & A. ROXBURGH, GLASGOW.

609 — B — J. & G. BULLOCH, LONDON.

610 — O — H. OWEN & SON, CARNARVON.

611 — B.B. — BULLOCHS BAY LINE, J. & G. BULLOCH, LONDON.

612 — HA — H. AUGER AINÉ HAVRE.

613 — S.E. — S. EYDE, ARENDAL.

614 — S.S. — G. SMITH & SONS, GLASGOW

615 — G & S — S. GOLDBERG & SONS, SWANSEA.

616 — C.E & H — C. EYDE & HEIN, ARENDAL.

617 — H.C. & Co — BAY LINE HATFIELD, CAMERON & Co GLASGOW.

618 — W B J & Co — W.B. JONES & Co SWANSEA.

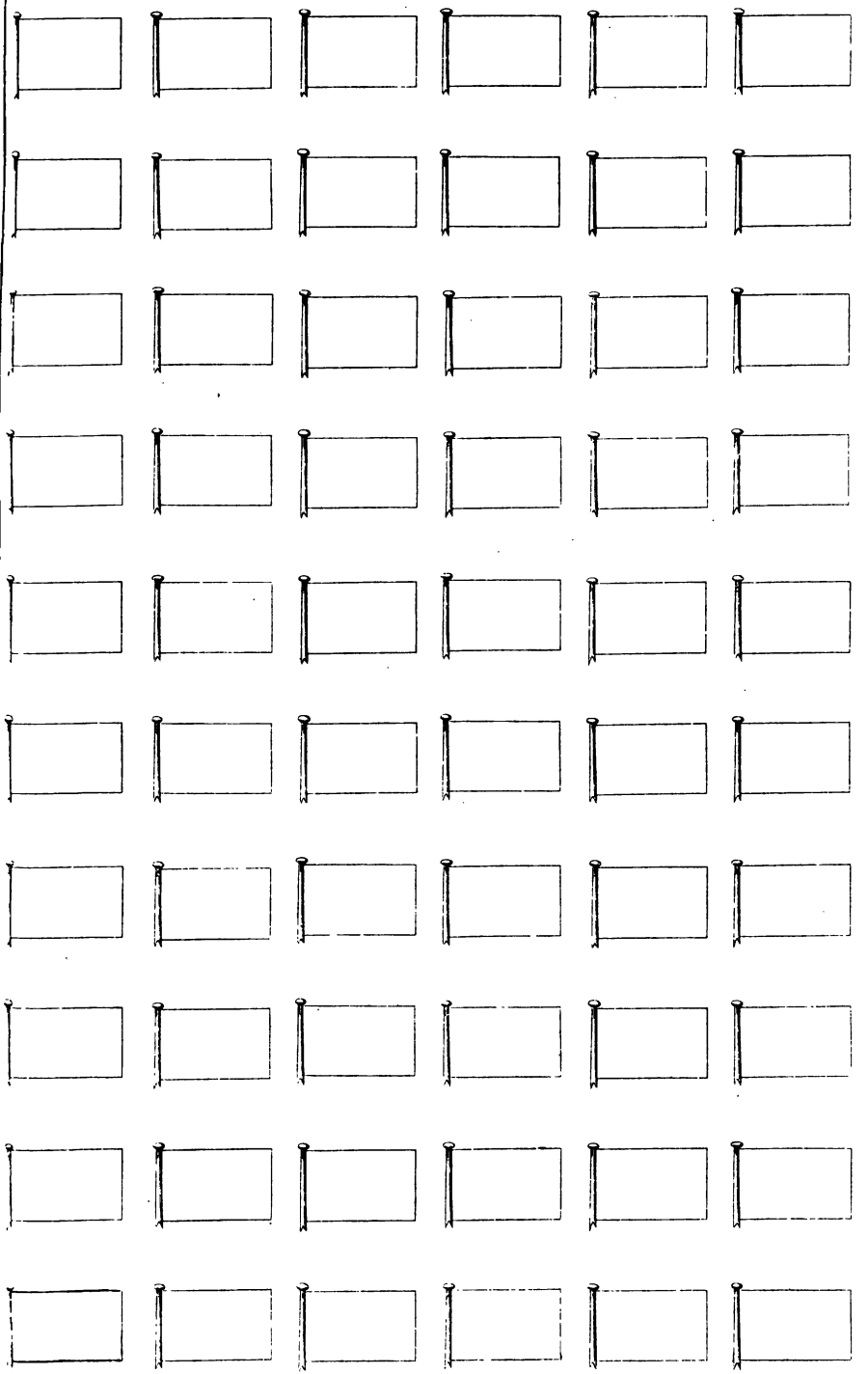
619 — E S Co Li — SYRIE SHIPPING Co WILLIAMS, JONES & Co LLANBERIS.

620 — W.J.M.S. & Co — W.J. MYERS, SON & Co LIVERPOOL.

Digitized by Google

Digitized by Google

# SAILING VESSELS.



Digitized by Google

Digitized by Google

# SAILING VESSELS.

621 POLEY & Co LONDON.

622 J. L. UBLAND, ARENDAL.

623 J. DOWIE. BLACK STAR LINE, LIVERPOOL.

624 GLOBE SHIPPING Co Ld C.G. DUNN & Co LIVERPOOL.

625 R M & Co RICHARDS, MILLS & Co LIVERPOOL.

626 THOM & CAMERON Ld CARSLOCH LINE, GLASGOW.

627 THE ROYAL NIGER Co LONDON.

628 G.D. TYSER & Co LONDON.

629 SHAW, SAVILL & Co LONDON.

630 D DUNDEE CLIPPER LINE, D. BRUCE & Co DUNDEE.

631 H W. HAMILTON & Co P7 GLASGOW.

632 L S O Co LANCASTER SHIPOWNERS Co LIVERPOOL.

633 D T. DUNLOP & SONS. CLAN LINE, GLASGOW.

634 B J. BEAZLEY & SON, LIVERPOOL.

635 BRITISH SHIPOWNERS Co LIVERPOOL.

636 J. S & Co JOHNSTON, SPROULE & Co LIVERPOOL.

637 A&F.S. A. & F. SMITH, TVEDESTRAND.

638 D THOMSON, DICKIE & Co GLASGOW.

639 ADB A.D. BORDES & FILS. BORDEAUX.

640 H&H HARGROVE & HELLION, LIVERPOOL.

641 C GIBSON & CLARK, PARS LINE, GLASGOW.

642 M G. MILNE & Co INVER LINE, ABERDEEN.

643 G R. H. GAYNER, SUNDERLAND.

644 H. TUTTON SWANSEA.

645 S.B. SCAMMELL BROS. ST JOHN, N.B.

646 W.J&Co W. JUST & Co LIVERPOOL.

647 B W BROWNE & WATSON. GLASGOW.

648 BOYES & RUYTER. BREMEN.

649 BW LEADENHALL LINE. LONDON.

650 W.M & Co WILLIAMSON, MILLIGAN & Co LIVERPOOL.

651 L. DAVIES & Co LIVERPOOL.

652 G J. & W. GOFFEY, LIVERPOOL.

653 G GOODYEAR & Co LIVERPOOL.

654 K J. KERR & Co GREENOCK.

655 R T & Co R. THOMAS & Co CRICIETH.

656 DOWARD, DICKSON & Co LIVERPOOL.

657 T.W&Co T. WILLIAMS & Co LIVERPOOL.

658 DeW J. R. DE WOLF & Co LIVERPOOL.

659 T R. TEDCASTLE & Co DUBLIN.

660 MORAN, GALLOWAY & Co LIVERPOOL.

66' A. & J. H. CARMICHAEL & GREENOCK.

663 J. BOYD. HELENSBURGH

664 ELDER LINE. TRINDER, ANDERSON & Co LONDON.

665 N.B.S.Co NORTH BRITISH SHIPPING Co GLASGOW.

666 F. S. PETERSEN. GRIMSTAD.

667 S G Co GENERAL SHIPPING Co AITKEN, LILBURN & Co GLASGOW.

668 W. SHILSTON, PLYMOUTH.

669 A. WEIR & Co BANK LINE, GLASGOW.

670 D DONALDSON BROS. GLASGOW.

671 L G.C. LORD & Co BOSTON, U.S.A.

672 R. & J. CRAIG. GLASGOW.

673 J. H. WORTHINGTON & LIVERPOOL.

675 G. THOMPSON & Co LONDON

676 DEWITT & MOORE. LONDON.

677 H.H.P. H. H. PETTERSEN, ARENDAL.

678 T. LAW & Co GLASGOW.

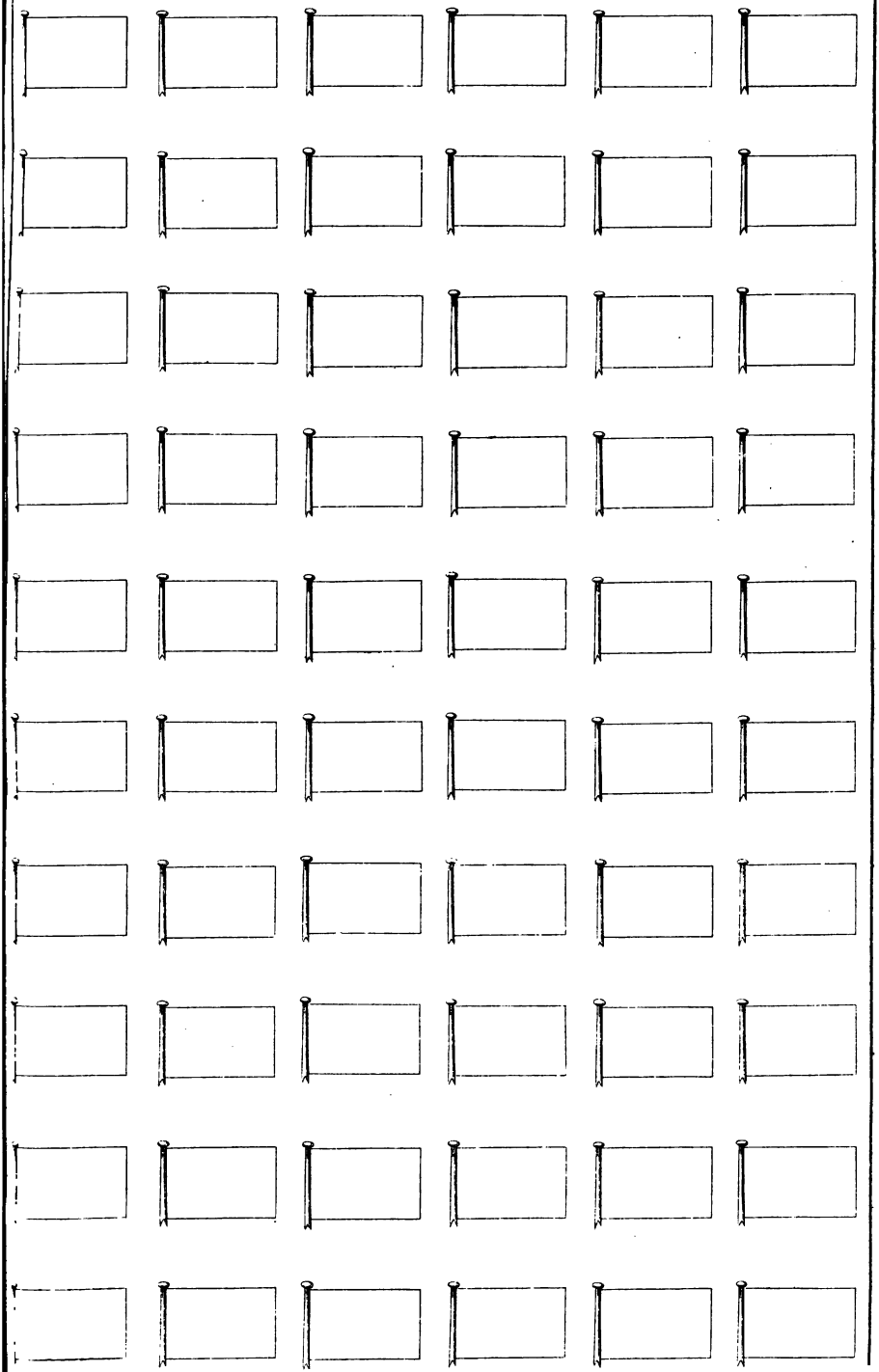
679 MONTGOMERIE & WORKMAN LONDON.



Digitized by Google

Digitized by Google

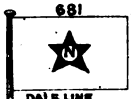
# SAILING VESSELS.



Digitized by Google

Digitized by Google

# SAILING VESSELS.



DALE LINE
J. D. NEWTON & Co
LIVERPOOL.

GUTHRIE, MACDONALD, HOOD & Co
"VILLAGE LINE"
GLASGOW

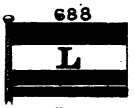
GELLATLY, HANKEY
SEWELL & Co
LONDON.

BRITISH & EASTERN
SHIPPING Co
LIVERPOOL.

HAYTON & SIMPSON,
LIVERPOOL.

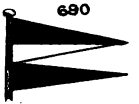
J. NOURSE.
LONDON.

W. THOMSON & Co
ST JOHN, N.B.

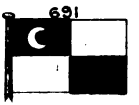


F. G. LÜBKEN.
ELSFLETH.

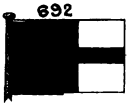
BEN LINE.



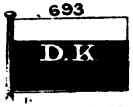
C. S. CAIRD.
GREENOCK.



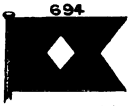
E. F. POWELL & Co
LIVERPOOL.



G. DUNCAN & Co
LONDON.

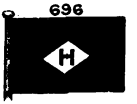


D. KENNEDY & Co
LIVERPOOL.

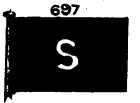


T. ROYDEN & SONS.
LIVERPOOL.

J. LIDGETT & SONS.
LONDON.



J. HOUSTON & SON.
LIVERPOOL.

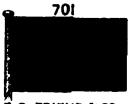


JAMES SUTHERLAND,
LIVERPOOL.

R. WILLIAMSON & SON.
WORKINGTON.

G. H. FLETCHER & Co
LIVERPOOL.

E. F. & W. ROBERTS,
LIVERPOOL.



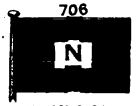
E. C. FRIEND & Co
LIVERPOOL.

PHILLIPS & GRAVES.
LONDON.

ROBERTSON, GRUIKSHANK & Co
"CROWN" LINE
LIVERPOOL.

W. & J. LOCKETT.
LIVERPOOL.

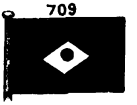
S. LAWTHER.
BELFAST.



NELSON & Co
LIVERPOOL.

S. WAKEHAM & SON.
LIVERPOOL & VALPARAISO LINE.

J. WILLIS & SON.
LONDON.

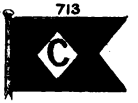


J. T. RENNIE & SON,
LONDON.

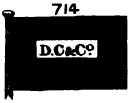
CRAWFORD & ROWAT.
"PORT LINE"
GLASGOW.

J. SPENCER & Co
"FIRTH LINE"
GLASGOW.

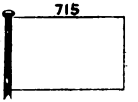
W. PRICE & Co
"HILL LINE"
LIVERPOOL.

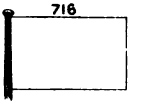


J. COUPLAND,
LEICESTER.



D. CORDES & Co
BREMEN.

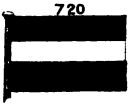


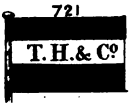
Mc ILWRAITH, Mc EACHARN & Co
LONDON.

SIEDENBERG, WENDT & Co
BREMEN.

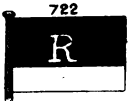
W. H. ROSS & Co
LIVERPOOL.



STUART & DOUGLAS.
LIVERPOOL.



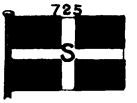
TOMLINSON, HODGETTS & Co
LIVERPOOL.



RICKMERS LINE.
BREMERHAVEN.

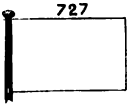
R. MARTIN & Co
DUBLIN.

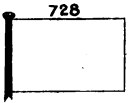
M.A. & A. DALL'ORSO.
GENOA.

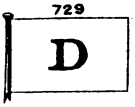


R. J. SWYNY,
LIVERPOOL.

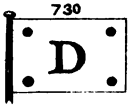
R. FARRELL.
YOUGHAL.



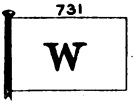



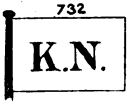
J. DUNN & SONS.
GLASGOW.



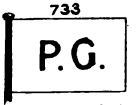
T. DANIEL & SONS,
BRISTOL.



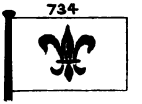
J. S. WINSLOW & Co
PORTLAND, ME. U.S.



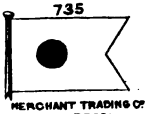
KERR, NEWTON & Co
GLASGOW.



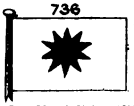
RANKIN, GILMOUR & Co
LIVERPOOL.



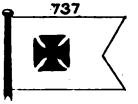
GREENSHIELDS, COWIE & Co
LIVERPOOL.



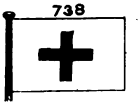
MERCHANT TRADING Co
LIVERPOOL.



GILLISON & CHADWICK.
LIVERPOOL.

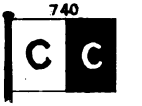


SWANSEA MERCHANTS
SHIPOWNERS Co LIMD
SWANSEA.



TEMPERLEYS, CARTER
AND DARKE.
LONDON.

T. & J. BROCKLEBANK,
LIVERPOOL.



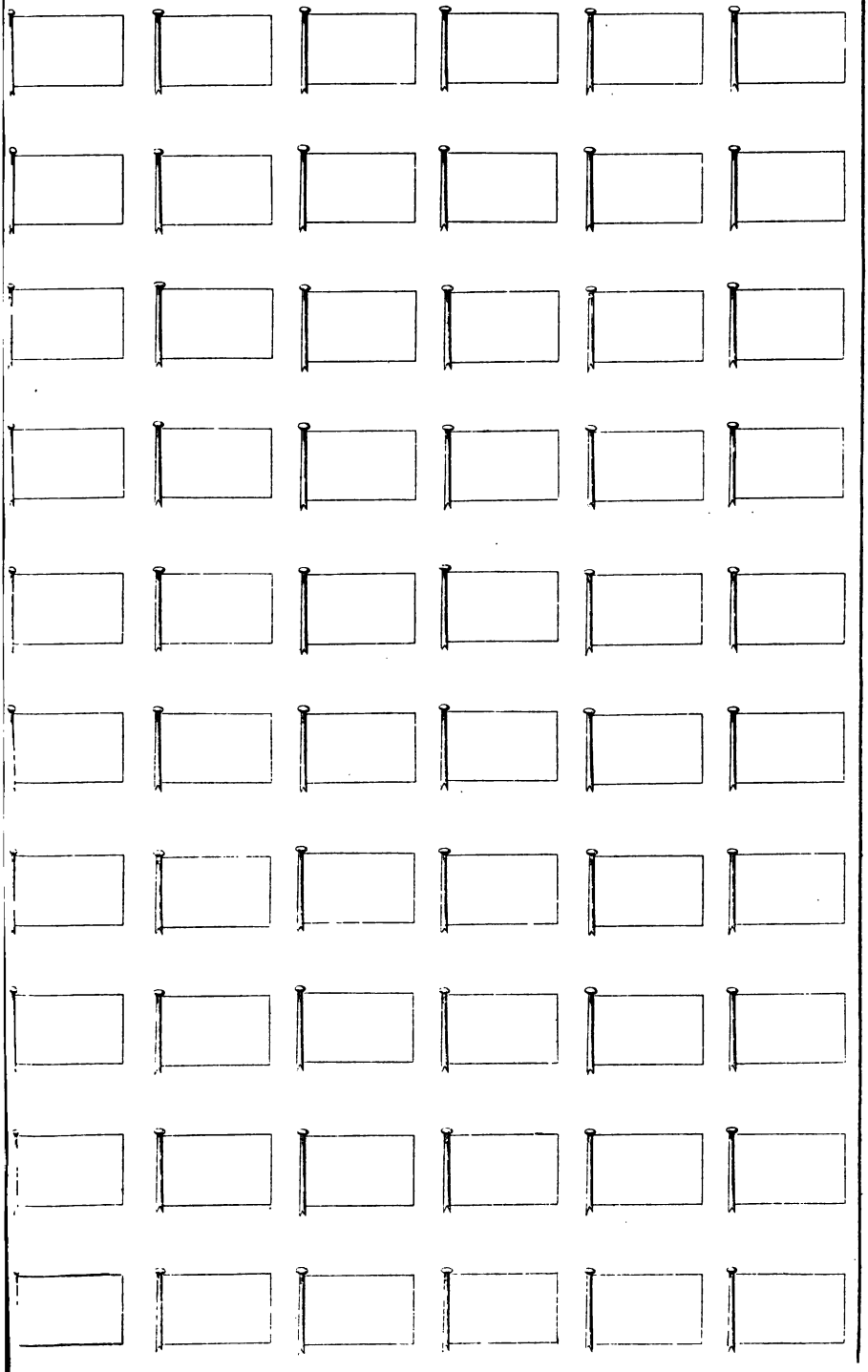
W. & A. CRAWFORD.
GREENOCK.

Digitized by Google


COPYRIGHT

Digitized by Google

# SAILING VESSELS.



Digitized by Google

Digitized by Google

# SAILING VESSELS.

741 — SIMPSON BROS. SWANSEA.

742 — BAINE & JOHNSTON, GREENOCK.

743 — M. GUIBERT & FILS ST SERVAN.

744 — WM THOMSON, DUNDEE.

745 — J. F. ARENS, BREMEN.

746 — J. SHEPHERD & Co LONDON.

747 — L.H.M. — LH MACINTYRE & Co LIVERPOOL.

748 — BW&Co — BALFOUR, WILLIAMSON & Co LIVERPOOL.

749 — D — J. R. DICKSON & Co "HILL LINE" GLASGOW.

750 — S. JOHNSTON & Co LIVERPOOL.

751 — KILLICK, MARTIN & Co LONDON.

752 — C S Co — CLUTHA SHIPPING Co J. HARDIE & Co GLASGOW.

753 — C.& — SANDBACH, TINNE & Co LIVERPOOL.

754 — A. GIBSON & Co LIVERPOOL.

755 — R.N.& SONS — R. NICHOLSON & SONS, LIVERPOOL.

756 — WM LETHAM, GREENOCK

757 — NICHOLSON & MCGILL, LIVERPOOL.

758 — ANDERSON, ANDERSON & Co LONDON.

759 — PER MARE — THOMPSON, ANDERSON & Co "SIERRA LINE" LIVERPOOL.

760 — J. STEEL & SON, LIVERPOOL.

761 — L — A. LYLE & SONS, GREENOCK.

762 — S — W. P. SINCLAIR & Co LIVERPOOL.

763 — J — J. I. JACOBS & Co LONDON.

764 — H — J. R. HAWS & Co LIVERPOOL.

765 — J.S. — JAMES SPROAT, "LOCH LINE" LIVERPOOL.

766 — L.Q — A. C. LE QUELLEC, BORDEAUX.

767 — W.McC & Co — W. McCORKELL & Co LONDONDERRY.

768 — F — J. H. FARMER & Co LIVERPOOL.

769 — H — T. HANKEY & Co LONDON.

770 — I — P. IREDALE & SON, LIVERPOOL.

771 — N — W. NICOL & Co LIVERPOOL.

772 — R — J. RICHARDSON & Co GREENOCK.

773 — A. SEWALL & Co BATH, MAINE, U.S.

774 — W — J. B. WALMSLEY & Co LIVERPOOL.

775 — W — D. H. WATJEN & Co BREMEN.

776 — McDIARMID, GREENSHIELDS & Co LIVERPOOL.

777 — R. SHANKLAND & Co "BURN LINE" GREENOCK.

778 — J. GAMBLES, "BEE HIVE LINE" HARRINGTON.

779 — A. H. MEURSING, AMSTERDAM

780 — FARNWORTH & JARDINE, LIVERPOOL.

781 — E.M. — EDMISTON & MITCHELL, GLASGOW.

782 — B.Wne — B. WENCKE SÖHNE, HAMBURG.

783 784 785 786 787 788

789 790 791 792 793 794

795 796 797 798 799 800

Digitized by Google

Digitized by Google

# NAUTICAL BOOKS PUBLISHED BY

# J. GRIFFIN & CO.,

*(Publishers by Appointment to H.M. The Queen and H.R.H. The Duke of Edinburgh).*

**2, THE HARD, PORTSMOUTH.**

---

Now Ready. Royal 16mo. Price 1s. 6d.

## THE SAILOR'S READY REFERENCE BOOK.

By Capt. F. G. D. BEDFORD, R.N., C.B.

For the use of the Royal Navy, the Mercantile Marine and Yacht Squadrons. Illustrated with Charts and Flags.

This book is designed for the use of the ordinary seamen of the Mercantile Marine, and for the rank and file of the Royal Navy, rather than for the officers only of the Services.

---

## THE SAILOR'S HAND BOOK.

A Companion to the "Sailor's Pocket Book."

2nd Edition. Reduced to 7s. 6d. Post Free.

By Captain F. G. D. Bedford, R.N., C.B. assisted by over 30 English and Foreign Officers. Containing information in a concise form which the Sailor will find useful in all Parts of the World; with 30 Charts printed in colours. Distance Tables, (computed by Captain T. Hull, R.N.) House Flags and Funnels of steamship Lines, (British and Foreign). Bar and Tidal Signals, &c.

---

6th Edition. 568 Pages. Price 7s. 6d. Post Free.

## THE SAILOR'S POCKET BOOK;

By Captain F. G. D. Bedford, R.N., C.B., with Diagrams, Colored Charts, Flags and Illustrations, and a Chapter on the Marine Steam Engine.

Valuable Information on Winds and Currents, Passage Tables, Sumner's Method, Law of Storms, Rule of the Road, Navigation, Tides, Measuring Heights, Management of Boats, Yacht Racing, Practical Receipts, Sir W. Thompson's Compass, &c., &c.


Digitized by Google

Royal 8vo. Second Edition. Reduced to 15s.

## TORPEDOES AND TORPEDO WARFARE.

Containing a Complete account of the Progress of Submarine Warfare; also a detailed description of matters appertaining thereto, including the latest improvements. By C. SLEEMAN Esq., late Lieut. R.N., and late Commander Imperial Ottoman Navy, with eighty-three full-page illustrations, diagrams, &c.

---

New Edition Just Ready, Price 8s. 6d.

## FLAGS—NATIONAL AND MERCANTILE.

Beautifully Printed in Colours. Demy 8vo. Bound in Cloth.

Containing some

**782 HOUSE FLAGS and FUNNELS,**

Of the principal ships of the Mercantile Marine; also the Royal Navy; National Ensigns for Men-of-War; National Colours for Mercantile Marine; International Code; Fog Signals; Optional Signals; Signals of Distress; Vessels Lights as seen by a Look-Out Man.

---

*Illustrated with Diagrams and Plans of Recent Ships,*

Royal 8vo. with full page plates and Lithographed Portraits of "Men-of-War." **PRICE 10/6.**

## THE NAVAL ANNUAL 1890-91 (VOL. 5)

By the Rt. Hon. LORD BRASSEY, K.C.B.

Vols. I., Price 7s. 6d., and IV., Price 10s. 6d. still to be had.

---

A Table for

## CORRECTION OF LONGITUDE.

Where error arises from incorrect Latitude useful to all Navigators. By GILBERT T. KEY, Commander, R.N.

Price One Shilling.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*

Digitized by Google

## HINTS ON BOAT SAILING AND RACING.

By Captain C. C. P. FITZGERALD, R.N.

2nd Edition. Foolscap 8vo. Illustrated. Price 2s. 6d.

"It is written in thorough sailor-like fashion, and is evidently the result of many years' experience. It is full of useful hints and practica advice as to sailing, trim, ballasting. steering and rig." *Hampshire Telegraph.*

---

Crown 8vo. Price 3s. 6d.

## NAUTICAL TERMS AND PHRASES

**English and French.**

By ERNEST PICARD, Capt. French Navy, and Lieut. S. R. FREMANTLE, R.N. For the use of Officers of Royal and Mercantile Navies, Engineers, Shipbuilders, Ship Owners, Merchants, Ship Brokers.

---

Crown 8vo. Third Edition. Price 3s. 6d.

## SEA TERMS AND PHRASES, IN ENGLISH AND FRENCH.

By E. PORNAIN, French Navy.

---

Royal 8vo, with coloured diagrams, Price 1s. 3d.

## REGULATIONS FOR PREVENTING COLLISIONS AT SEA.

As proposed for adoption by the International Marine Conference held at Washington, 1889.

---

## THE OFFICER OF THE WATCH.

*SECOND EDITION.*

Notes on Watch Evolutions under Sail, for young officers of the Watch and Mates of the Forecastle in Her Majesty's Ships

By Lieut. HUGH TALBOT, R.N.—Price 1s.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

## COASTAL NAVIGATION;

OR

NOTES ON THE USE OF CHARTS,

By JOSEPH JAMES CURLING. With Diagrams and a Chart to Illustrate the Notes. Price 2/6.

---

"A most readable and valuable book on Modern Naval Tactics." Demy 8vo., with diagrams. Price 10s. 6d. Cloth.

**Examples, Conclusions and Maxims of**

## MODERN NAVAL TACTICS

By COMMANDER WM. HOFF, United States Navy. Being a reprint of the Work issued by the Office of Naval Intelligence, Navy Department, Washington, U.S

---

## THE EXECUTIVE OFFICER'S ORDERS,

With regard to the internal economy of a Man-of-War, compiled and arranged by Commander A. C. Corry. Royal 8vo. Price 4s,

---

Revised and greatly Enlarged.

## SIR GEORGE S. NARES' SEAMANSHIP.

**6th Edition.** Demy 8vo. 21s.

420 beautifully engraved Woodcuts, and Plates of National and Signal Flags, also of Lights and Fog Signals, accurately Coloured. Corrected to date.

Translated into French and Italian.

---

## THE RIGGER'S GUIDE.

**10th Thousand.**

Revised and enlarged. Cloth, 3s.

By CHARLES BUSHELL. Fully Illustrated. Being the best and only complete book on the Rigging of Ships.

"This is a valuable little book, adapted to suit every class of ship, whether steam or sailing vessel, and should form part of the kit of very youngster adopting the profession of the sea. Many oldsters will also find it valuable, from the general information it contains. The present is the sixth edition which has been carefully revised and corrected."—*U. S. Gazette.*

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

A Short Course of

## ELEMENTARY NAVIGATION.

Containing explanations of the methods for finding Latitude and Longitude at Sea by dead reckoning and by observation of the Sun; besides a ready and quick method for finding the error of the Compass by Amplitudes. With numerous examples. Written for the use of British Seamen, by Rev. S. S. O. Morris, M.A., R.N., Price 2/

---

Demy 8vo. Price 7s. 6d.

## THE DANGERS OF THE MODERN RULE OF THE ROAD AT SEA;

To which is added a Note on the Manœuvring Powers of Ships as affecting Collisions. By ADMIRAL COLOMB, R.N., Author of "The Law of Port-Helm," "Our Peril Afloat," &c.

---

## THE DUEL: A NAVAL WAR GAME.

Invented and arranged by ADM. PHILIP H. COLOMB, R.N., with Explanations and Rules of the Game, and the necessary Scales, and large Drawing Block. Price 10s. 6d.

---

Pictures of

## MODERN SHIPS OF WAR.

Reproduced by permission from Lord Brassey's Naval Annual. Illustrated cover. Price 3/6.

---

## WATCH BILL FOR ROYAL MARINES.

Price 1s. 3d.

---

## ENGINEER OFFICER'S WATCH STATION QUARTER AND FIRE BILLS.

By W. J. J. Spry, R.N. Price 1s. 6d.

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

New edition. Crown 8vo. With diagrams, Price 8s. 6d.

## THE GUN, RAM, AND TORPEDO.

Manœuvres and Tactics of a Naval Battle of the present day.
By Commander GERARD H. U. NOEL, R.N.

---

## DEFINITIONS IN NAVIGATION AND NAUTICAL ASTRONOMY

(FROM VARIOUS AUTHORITIES.)

**New Edition.** With Diagrams. Demy 8vo. Cloth, 3s. 6d.
For the use of the Naval Cadets, H.M.S. "Britannia."

---

## HARBORD'S GLOSSARY OF NAVIGATION

With Diagrams and Illustrations, bound in leather, price 7s. 6d.

A Vade Mecum for practical Navigators of the Royal Navy, Mercantile Marine and Yacht Squadrons; containing explanations of the technical terms used in Nautical Geography, Meteorology, and Astronomy; hints to young officers for systematic study; and information not generally accessible when wanted.

---

## THE MANUAL OF THE HYDROMETER

**2nd Edition.** Illustrated. Cloth. 3s. 6d.

By LIONEL SWIFT, R.N.

Will be found of considerable interest to Engineers and all those who are interested in the safe and economical working of Steam Engines. *Shipping and Mercantile Gazette.*

---

## TRAVERSE TABLES

With simple and brief method of Correcting Compass Courses.

By Commander R. E. EDWIN, R.N. Cloth, 5s. 6d.

"Lieutenant Edwin has been at great pains and trouble, and he will probably save many hundreds of persons from calculations which are frequently 'wearisome to the flesh.'"—*Broad Arrow.*

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*

Digitized by Google

## LAND OF THE WHITE BEAR

**The Cruise of the "Pandora," to the Arctic Seas in 1875.**

By LIEUT. F. G. INNES-LILLINGSTON, R.N.

With beautiful full-page Illustrations. Cloth Gilt, 5s.

The volume is prettily got up, and the views of Arctic scenery are about the best we have seen in any recent work of the kind.—*Athenæum.*

---

Illustrated. Demy 8vo., Cloth. 7s. 6d.

## THE WEST COAST OF AFRICA

**AS SEEN FROM THE DECK OF A MAN-OF-WAR.**

By Commander H. DYER, R.N.

"We think the friends of the late Commander Dyer have done well in publishing this little volume as a memorial to one whom they loved, both as a genial companion and an officer."

"That large class of readers which takes pleasure in perusing books of travel cannot do better than read this well-printed volume."—*Broad Arrow.*

---

## SEARCH FOR SIR JOHN FRANKLIN.

Price 1s. Illustrated.

From the Journal of Capt. Sir ALLEN YOUNG, K.C.B.

---

## THE STORY OF TRAFALGAR.

Told by J. K. LAUGHTON, to the men of H.M.S. "Trafalgar.

Price 1s. 0d.

---

Royal 4to. Price 30/- Illustrated with Fifty Full-Page Illustrations and Diagrams.

## NORDENFELT MACHINE GUNS.

Described in detail and compared with other systems; also their Employment for Naval and Military purposes.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth*


Digitized by Google

## THE ARMIES OF EUROPE AND ASIA

Demy 8vo. Illustrated. 14s.

By Major-General UPTON, U.S.A. Embracing Official Reports on the Armies of Japan, China, India, Persia, Italy, Russia, Austria, Germany, France, and England. Accompanied by Letters descriptive of a Journey from Japan to the Caucasus.

---

## THE WAR SHIPS OF EUROPE

Crown 8vo. Illustrated. 3s. 6d.

By Chief-Engineer KING, U.S.A. Descriptions of the Construction, Armour and Fighting Power of the Ironclads of England and other European Powers of the present day. Revised and Corrected throughout, with additional Notes by an English Naval Architect.

---

## OUR PERIL AFLOAT OR COLLISIONS AND HOW TO AVOID THEM

With Illustrations. 1s.

By Captain P. H. COLOMB, R.N. (Gold Medalist, Royal U.S. Institution.) CONTENTS: Part I. The Rule of the Road at Sea: its history and present condition; Part II. The Theory and Practice of avoiding Collision at Sea; and the Regulations issued by Order in Council.

---

Crown 8vo. Price 2s.

## THE CRUISE OF H.M.S. "CALLIOPE."

In China, Australian and East African Waters, from 1887—1890 by the Rev. A. C. EVANS, M.A., Chaplain R.N., with map of Apia Harbour.

---

## HINTS ON ANCHORING

and Mooring with the Fleet, by Staff-Commander B. Gwynne, Price 1s.

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

ON THE RELATIVE MERITS OF

## SIMPLE AND COMPOUND ENGINES.

By NIEL MACDOUGALL, Esq. With numerous Diagrams and Illustrations. Price 4s. 6d.

"The Book will prove instructive and interesting to all engaged in Marine Engineering pursuits, and the Engineer Officers of the Royal Navy in particular are heartily recommended it."—*Broad Arrow.*

---

"The Torpedo England's Destruction,"

Now Ready.

## HOW THE FRENCH CONQUERED BRITAIN IN 1888

Translated from the German, by
COMMANDER F. H. E. CROWE, R.N.

**Price 1s.**

---

## PILOT'S HANDBOOK TO THE ENGLISH CHANNEL.

By Staff-Commander KING. Eleventh Edition. Revised by Commander T. A. Hall, R.N. Price 7s. 6d.

---

## A TREATISE ON MARINE SURVEYING.

For the use of Young Naval Officers. By Rev. J. L. Robinson.

Price 7s. 6d

---

## AN EXPLANATORY ARITHMETIC.

Designed as a School Text Book. By G. EASTCOTT SPICKERNELL.

Fourth Edition. Thoroughly Revised. Price 3s. 6d.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*

Digitized by Google

## GUNNERY DRILL BOOK.

For H.M. Fleet, 1889, Price 1s.

## RIFLE AND FIELD EXERCISES,

and Rifle Practice Instruction for H.M. Fleet, 1888, Price 1s.

## BOATS' SIGNALS.

For the use of H.M Fleet, 1890, Price 1s.

## CLOTHES AND SLOP LISTS.

**New Pattern, in accordance with the New Uniform Regulations.**

**Price 3s. 6d.**

## THE ESSENTIALS OF GEOGRAPHY.

Illustrated by 18 Maps. By H. M. EASTMAN.

Crown 8vo. Price 3s. 6d.

## SAILOR'S WORD BOOK

**A Nautical and Military Vocabulary.**

By Admiral SMYTH. Thick 8vo., cloth. Published at 21s.

Reduced to 7s. 6d.

## WATCH BILL ALTERATION BOOK.

**Price 10s. 6d.**

## MIDSHIPMANS LEAVE BOOK.

**Price 10s. 6d.**

**NAME AND RATING CARDS, 3s. per 100.**

For Masted and Mastless Ships.

**COURSE AND DISTANCE FORMS 2s. per 100.**

**HAMMOCK LISTS, 3s. per 100.**

**CHRONOMETER JOURNAL.** With Diagrams. 7s. 6d. 10s. 6d.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

**THE ADMIRALTY MANUAL OF SCIENTIFIC ENQUIRY. 4th Edition. 3s. 6d.**

---

**CERTIFICATE CASES Half Roan, 2s. 6d.**

---

## SEAMEN'S PRAYERS

**For the use of the Royal Navy; and also Merchant Service.**

**95th THOUSAND; on Card, 2s. per 100. Per post, 2s. 6d.**

---

## SHIPS' CRESTS

**Stamped in Colors.**

40 Crests on each sheet, 6 different sheets, One Shilling each

ALSO,

**Illuminated Ships' Crests,**

9 on each sheet, 10 different Sheets. One Shilling each.

New Sheet, No. 6½ Price 6d.

---

A complete set, consisting of 200 Crests, in *Colors*, and 90 *Illuminated* in Gold and Colors, costs 15s.

---

**WASHING BOOK FOR NAVAL OFFICERS.—6d.**

---

## WATCH, STATION, QUARTER AND FIRE BILLS.

For the use of H.M. Mastless Ships.

No. 1, 3s. 0d. No. 1, Pocket Edition, 1s. 4d. No. 2, 2s. 6d.
No. 2, Pocket Edition, 1s. 0d.

For the use of H.M. Masted Ships

No. 1, 5s. 0d. No. 1, Pocket Edition 4s. 6d. No. 2, 2s. 6d.

---

## JOURNAL AND REMARK BOOK.

For use of the Lieutenants and Officers of the Royal Navy.

One Year 4s. 6d. Two Years, 6s. 0d. Three Years, 7s. 6d.

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth*

Digitized by Google

Royal 8vo. Price 4s.

A TEXT BOOK OF

NAVAL ARCHITECTURE

For the use of Junior Officers of the Royal Navy, by J. J. WELCH.

---

Crown 8vo. Cloth 5s. Half Rox. 6s.

HORATIO NELSON.

AND THE

NAVAL SUPREMACY OF ENGLAND.

A BIOGRAPHY BY

W. CLARK RUSSELL, Author of the "Wreck of the Grosvenor."
Life of William Dampier, &c.

---

DURASSIER'S AIDE MEMOIRE

de L'OFFICIER DE MARINE.

PRICE 3s. 6d.

---

*SIR THOS. BRASSEY'S "BRITISH NAVY," &c.*

**In 5 Volumes Complete.**

Now very scarce.

---

*Dixon Kemp's Manual of Yacht & Boat Sailing*

Sixth Edition. Revised and Enlarged. Price 25/-.

DIXON KEMP'S YACHT ARCHITECTURE.

2nd edition, partly re-written, revised and enlarged.

Royal 8vo. Price 25s.

---

CARNET

de L'OFFICIER DE MARINE

1891.

PRICE 3s. 6d.

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*

Digitized by Google

# NAVAL PROFESSIONAL BOOKS.

**SOLD BY MESSRS. GRIFFIN & CO.**

**NAVIGATION, ASTRONOMY, &c.**

"WRINKLES" IN NAVIGATION, by Capt. S. T. Lecky. 8vo. 76 illustrations. 15s.

HARBORD'S GLOSSARY OF NAVIGATION. New Edition. 7s. 6d.

RAPER'S NAVIGATION, NAUTICAL ASTRONOMY, &c. With Tables. 16s.

MARTIN'S NAVIGATION AND NAUTICAL ASTRONOMY. 18s.

JEANS' NAUTICAL ASTRONOMY AND NAVIGATION. 14s.

JEANS' TRIGONOMETRY, with Problems in Nautical Surveying, &c.

JEANS' HANDBOOK OF THE STARS. 4s. 6d.

GOODWIN'S TRIGONOMETRY. 8s. 6d.

NORIE'S EPITOME OF PRACTICAL NAVIGATION. 16s.

INMAN'S NAUTICAL TABLES. 16s.

BURDWOOD'S AZIMUTH TABLES. 4s. 6d.

DAVIS'S AZIMUTH TABLES, from 30° N. to 30° S. 10s. 6d.

NAVIGATION AND NAUTICAL ASTRONOMY. By the Rev. R. M. Inskip, C.B. 6s. 6d.

HOW TO FIND THE STARS, AND THEIR USE IN DETERMINING LATITUDE, LONGITUDE, and THE ERROR of the COMPASS. 8s. 6d.

THE STARS; HOW TO KNOW AND HOW TO USE THEM, with copious Astronomical Definitions, &c., and Four Large Maps of the Stars. 7s. 6d.

A TABLE FOR THE CORRECTION OF LONGITUDE, when error arrises from incorrect Latitude. By Gilbert F. Key, Commander, R.N. 1s.

DEFINITIONS OF THE TERMS USED IN NAUTICAL ASTRONOMY AND NAVIGATION. H,M.S. "Britannia." 3s. 6d.

LABROSSE'S AZIMUTH TABLES, 61° N. to 61° S. (Explanations in English, French, German and Spanish).

ELEMENTARY LESSONS IN ASTRONOMY. By J. F. Norman Lockyer. 5s. 6d.

HANDY BOOK OF THE STARS USED IN NAVIGATION. By Capt. W. B. Whall. 7s. 6d.

HANDY BOOK OF THE TIDES, SHEWING THE STATE OF THE TIDE AT EVERY HOUR AT DOVER. 2s. 6d.

BRIEF AND SIMPLE METHODS OF FINDING THE LATITUDE AND LONGITUDE. By A. C. Johnson, R.N. Royal 8vo. 2s. 6d.

HOW TO FIND THE TIME AT SEA IN LESS THAN A MINUTE, BEING A NEW AND ACCURATE METHOD. By A. C. Johnson. 2s.

**NAUTICAL SURVEYING.**

HYDROGRAPHICAL SURVEYING. By Captain Wharton. 15s.

THE PRACTICAL AND THEORETICAL STUDY OF NAUTICAL SURVEYING. By J. Knox Laughton. 6s.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

# NAVAL PROFESSIONAL BOOKS.

*(Continued.)*

**NAUTICAL SURVEYING.**

A TREATISE ON MARINE SURVEYING by the Rev. J. L. Robinson, B.A. 7s. 6d.

PRACTICAL NOTES ON MARINE SURVEYING. By Captain R. C. Mayne, R N. 10s. 6d.

PRACTICAL SURVEYING, &c. By Staff-Commander Thos A. Hull, R.N. 2s.

NOTES ON THE MANAGEMENT OF CHRONOMETERS AND MEASUREMENT OF MERIDIAN DISTANCES. By Admiral Sir Chas. F. N. Shadwell, C.B. Price 5s.

**AMMUNITION AND ORDNANCE.**

TEXT BOOK OF CONSTRUCTION AND MANUFACTURE OF Ordnance. Printed by Order of Secretary of State for War. Coloured Illustrations. Cloth Boards, 9s.

RIFLE AND FIELD EXERCISES AND AMMUNITION INSTRUCTIONS for Her Majesty's Fleet. 1s.

TREATISE ON MILITARY SMALL ARMS AND AMMUNITION with Theory of the motion of a Rifle.—1888 price 4/-.

TREATISE ON AMMUNITION. Third Editon. Corrected to November, 1887. 6s. od.

NOTES ON NAVAL GUNS, Their Stores and Fittings. Compiled by J. Wood. Corrected 1st January, 1875 Price 2s. 6d.

GYMNASTIC EXERCISES, FENCING, &C. 2s.

HANDBOOK OF GUNPOWDER AND GUN-COTTON. By Colonel Wardell, R.A., by order of Secretary of State for War. Price. 2s. 6d.

TEXT BOOK OF GUNNERY, 1887 By Major J. Mackinlay, 4/-

**ELECTRICITY, &c., Recommended for Torpedo Study.**

ELECTRICITY; Its Theory, Sources and Applications. By John T. Sprague. Post 8vo. 15s.

ELECTRICITY AND MAGNETISM. By Fleming Jenkin. Post 8vo. 3s. 6d.

LESSONS ON ELECTRICITY at the Royal Institution. By John Tyndall. Post 8vo. 2s. 6d.

ELECTRICITY. AND MAGNETISM By S. P. Thompson. Fcap. 8vo. 4s. 6d.

ELECTRICITY AND MAGNETISM. By Deschanel. 8vo. 4s. 6d.

ELECTRO TELEGRAPHY. By Frederick Beechey Fcp. 8vo. 1s. 6d.

BALFOUR STEWART'S LESSONS ON ELEMENTARY PHYSICS 5s. 6d.

GANOT'S PHYSICS, Experimental and Applied. 820 Woodcuts. Post 8vo. 15s.

THE FORCES OF NATURE, By Amedèe GUILLEMIN. Illustrated by 11 coloured plates and 455 woodcuts. £1 1s.

DESCHANEL'S NATURAL PHILOSOPHY. By Professor Everett. 18s.

BARNES' SUBMARINE WARFARE (American). Cloth. 25s.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

# NAVAL PROFESSIONAL BOOKS.

*(Continued.)*

**ELECTRICITY, &c., Recommended for Torpedo Study.**

HANDBOOK OF ELECTRICAL TESTING. By R. H. Kempe. 16s.

DYNAMO ELECTRIC MACHINERY, by Silvanus P. Thompson price 16s.

ELECTRICAL RULES & TABLES. MUNROE & JAMESON. 8s.6d.

**SEAMANSHIP, RIGGING, MASTING, &c.**

SIR GEORGE NARES' SEAMANSHIP. 6th Edition. Revised and brought down to date, by Comr. A. C. B. Bromley, R.N. 21/-

THE RIGGER'S GUIDE, AND SEAMAN'S ASSISTANT. By Chas. Bushell. 3s.

THE SAILOR'S POCKET BOOK; Practical Rules, Notes, and Tables. By Capt. F. G. D. Bedford, R.N. Fifth Edition. 7s. 6d.

THE SAILOR'S HAND BOOK; A Companion to the Sailor's Pocket Book. By Capt. F. G. D. Bedford, R.N. Second Edition. Reduced to 7s. 6d.

PRACTICAL SEAMANSHIP, for use in the Merchant Service John Todd, and W. B. Whall, with 243 Illustrations, and Diagrams. 21s. 0d.

DARCY LEVER'S SEAMANSHIP; or, the Young Officer's Sheet Anchor. 114 plates. Secondhand. £2 2s.

SAILS AND SAIL MAKING, WITH DRAUGHTING, &c. By Robert Kipping, 2s. 6d.

TREATISE ON MASTING, MAST-MAKING, and RIGGING OF SHIPS. With Tables of Spars, &c. By Robert Kipping. 2s.

TEXT BOOK OF NAVAL ARCHITECTURE, for the use of the Officers of the Royal Navy, price 4/-

**NAVAL WARFARE, TEXT BOOKS, &c.**

TORPEDOES AND TORPEDO WARFARE; Offensive and Defensive: being a complete History of Torpedoes. By C. Sleeman, Lieutenant, R.N. 83 pages of illustrations. Cheap Edition, 15s.

THE GUN, RAM, AND TORPEDO. Manœuvres and Tactics of a Naval Battle of present day by Commander G. H. U. Noel. 8/6

THE DUEL; a Naval War Game. Invented and arranged by Capt. Philip H. Colomb, R.N., with explanations and rules of the Game and necessary scales, &c. 10s. 6d.

PROBLEMS IN NAVAL TACTICS. By Vice-Admiral Randolph, C.B. With 4 full-page diagrams. 2s.

THE GUNNERY DRILL BOOK. Corrected to 1889.

REMARKS ON THE MANŒUVRES OF TWO VESSELS IN ACTION. By Lieutenant G. R. Bethell, R.N. 2s.

QUESTIONS & ANSWERS IN THE AMMUNITION INSTRUCTION. By J. Kite. Price 2s.

COURSE OF INSTRUCTION IN GUNNERY SHIPS FOR OFFICERS AND MEN. 6d. 1890

THE WAR SHIPS OF EUROPE, containing a description of the Construction, Armour and Fighting Power of Iron Clads of England. Crown 8vo. 10s. 6d. Reduced to 3s.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*

Digitized by Google

## NAVAL PROFESSIONAL BOOKS.

*(Continued.)*

THE QUEEN'S REGULATIONS & ADMIRALTY INSTRUCTIONS. New Edition, 1887. 5s. od.

CORRECTIONS, PUBLISHED QUARTERLY, price 3d. each.

**MEDICAL.**

SERVICE CHEMISTRY. By Vivian B. Lewes, F.I.C., F.C.S., Professor of Chemistry, Royal Naval College, Greenwich. 15s.

DICTIONARY OF MEDICINE. By various writers. Edited by Richard Quain, M.D., F.R.S. 31s. 6d., or in 2 Volumes, 34s.

DICTIONARY OF PRACTICAL SURGERY; Edited by Christpher Heath, F.R.C.S. Two Vols. 32s.

OUTLINES OF NAVAL HYGIENE. By John D. Macdonald, M.D., F.R.S. With Illustrations. 12s. 6d.

MANUAL OF PRACTICAL HYGIENE. By E. A. Parkes. M.D. 5th Edition. 18s.

THE SURGEON'S POCKET BOOK. An Essay on Best Treatment of Wounded in War. By Surgeon-Major J. H. Porter. Second Edition. With 152 Illustrations. 7s. 6d.

SURGICAL EMERGENCIES. A Manual for the Use of general Practitioners. By Wm. Paul Swain. 3rd Edition. 5s.

MANUAL OF OPERATIVE SURGERY. By Lewis A. Stimson, B.A. Over 300 Illustrations. 10s. 6d.

ANATOMY—DESCRIPTIVE AND SURGICAL. By Henry Gray, F.R.S. New Edition by T. Holmes. 28s.

BRYANT'S MANUAL FOR THE PRACTICE OF SURGERY. New Edition. With 672 Engravings. 2 Volumes. 28s.

GUNSHOT INJURIES; THEIR HISTORY, CHARACTERISTIC Features, &c. By Surgeon-General T. Longmore, C.B. 31s. 6d.

**STEAM.**

SEATON'S MANUAL OF MARINE ENGINEERING. 18s. 6th Edit.

SENNETT'S MARINE STEAM ENGINE. For the use of Engineer Students and officers of Royal Navy. 21s.

EVERS' STEAM AND THE STEAM ENGINE; Land, Marine and Locomotive. 3s.

DRAWING & ROUGH SKETCHING FOR MARINE ENGINEERS. By Donaldson. 8s.

MARINE ENGINES AND BOILERS; Pocket Book of Practical Rules for the Proportions of. By Burgh. 4s. 6d.

ON THE RELATIVE MERITS OF SIMPLE AND COMPOUND ENGINES. BY NIEL MACDOUGALL, ESQ. PRICE 4s.6d.

SWIFT'S MANUAL OF THE HYDROMETER. 3s. 6d.

MOLESWORTH'S ENGINEER'S POCKET BOOK. 6s.

PROCTOR'S POCKET BOOK FOR MARINE ENGINEERS. 4s.

MAXTON'S WORKMAN'S MANUAL OF ENGINEERING DRAWING. 4s.

SPON'S TABLES AND MEMORANDA for Engineers. 1s.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*


Digitized by Google

Digitized by Google

Digitized by Google

This book should be returned to the Library on or before the last date stamped below.

A fine is incurred by retaining it beyond the specified time.

Please return promptly.

Digitized by Google

H 9450.11.105
Flags national and mercantile;
Widener Library 005679205
3 2044 088 082 565

Digitized by Google